CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, October 13, 1904.

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PERSONAL.

Mr. R. V. Taylor has been appointed General Manager of the Mobile & Ohio Ry., succeeding Mr. G. S. Clark.

Mr. J. A. Edson, formerly Manager of the Denver & Rio Grande R. R., has accepted the position of General Manager of the Cincinnati, Hamilton & Dayton R. R.

Mr. Oliver T. Reedy and Miss Eva M. McCune were married at Stromsburg, Neb., Sept. 20. Mr. Reedy is an engineer with the U. S. Geological Survey and at present is located at Livingstone, Ariz.

Mr. John A. Cleveland has returned to Mobile, Ala., after an absence of three years in Ecuador, where he was engaged as a civil engineer in railroad building and in the construction of the Guayaquil & Quito R. R.

Mr. A. W. Sullivan, Fourth Vice-President of the Illinois Central R. R., has been appointed General Manager of the Missouri Pacific Ry. and St. Louis, Iron Mountain & Southern Ry., succeeding Mr. Russell Harding.

Mr. C. E. McKim has resigned as General Superintendent of Transportation of the Chicago, Rock Island & Pacific R. R. He will be succeeded by Mr. W. M. Hobbs, Assistant General Superintendent of Transportation.

Mr. H. B. Johnson has resigned the position of Superintendent of the Water and Light Departments of Cedartown, Ga., to accept a position as Superintendent of the Decatur Light, Power & Fuel Co., of New Decatur, Ala.

Mr. Chas. Pearson has resigned as Draftsman-in-Charge in the Department of Yards and Docks at the Charleston, S. C., Navy Yard, to accept a position as Assistant Engineer with the Atlantic & North Carolina R. R. at New Bern, N. C.

Mr. H. G. Van Dervere, Chief of the Engineering Corps making surveys for the new Susquehanna railroad bridge between Perryville and Havre de Grace, Md., had his right foot badly mashed by a handcar used in constructing the bridge piers.

Columbia University has conferred the honorary degree of Doctor of Science upon Sir William Ramsey, of London, recently President of the Society of Chemical Industry, and Mr. William H. Nicholls, of New York City, the present President.

Mr. John M. Borland and Miss Blanche Glidden, of Cleveland, O., were married in that city Sept. 26. Mr. Borland is a graduate of Washington and Jefferson College, in the class of 1899, and is a civil engineer in the employ of Pennsylvania R. R.

Mr. R. H. Howes, Jun. Am. Soc. C. E., and Miss Cushman, of Cambridge, Mass., were married in that city Oct. 5. Mr. Howes is Superintendent of Construction for Wells Bros. Co., of New York City, in the erection of the new $1,000,000 court house at Syracuse, N. Y.

Mr. L. F. Loree has resigned his positions as Chairman of the Executive Committee of the Chicago, Rock Island & Pacific Ry. and the St. Louis & San Francisco Ry. Mr. B. F. Winchell, President of the former road, will assume full control, and Mr. B. F. Yoakum succeeds Mr. Loree on the latter road.

Mr. Owen M. Jones, formerly Instructor in Civil Engineering in Syracuse University, has gone to New Orleans, La., to assume his new position as head of the Department of Civil Engineering in Tulane University. Mr. H. H. Kirkpatrick, formerly of Illinois University, succeeds Mr. Jones at Syracuse.

Mr. Frank R. Snyder, formerly Principal Assistant Engineer to Major G. W. Vaughn, Engineer in Charge of the joint track elevation of the Santa Fe, Illinois Central and Chicago & Alton railways, in Chicago, has, upon completion of that work, been made Assistant Engineer to Mr. James Dun, Chief Engineer of the Atchison, Topkea & Santa Fe Ry. system at Chicago.

In our issue of Oct. 6 we stated that Mr. Thomas F. Richardson, M. Am. Soc. C. E., Engineer, Dam and Aqueduct Department, Metropolitan Water and Sewerage Board, had severed his connection with that board and would go to Panama to engage in work on the Canal. We were in error in this statement, as Mr. Richardson expects to remain with the Metropolitan Water and Sewerage Board for at least a year more.

Mr. W. B. Poland has resigned as Superintendent of the Indiana Division of the Baltimore & Ohio Southwestern R. R., with headquarters at Cincinnati, and will assume charge of the construction and operation of the Alaska Central R. R. Mr. Poland will spend a month or six weeks investigating the project in the interests of capitalists. If his report is favorable the parties he represents will finance the road, which is to extend from Cape Resurrection northwardly about 450 miles to the Yukon River. Mr. Poland is a graduate of the Massachusetts Institute of Technology, and began his railroad career on the C. C. C. & St. L. Ry., where he had charge of surveys and maintenance for a number of years.

OBITUARY.

Thomas Bomar, a negro contractor of Spartanburg, S. C., died in that City Sept. 30. He is stated to have built at least six cotton mills in that section, including the $1,000,000 plant of the Spartanburg Mills.

Henry A. Gouge, inventor of the safety car heating apparatus known by his name, died at his home in New Rochelle, N. Y., recently. Mr. Gouge also was the inventor of a ventilating apparatus for public buildings.

Clarence M. Daily, an electrical engineer, formerly in the employ of Thomas A. Edison, died at his home in East Orange, N. J., Oct. 2. His death was due to injuries received seven years ago while engaged in experimental work in connection with Roentgen Rays.

B. Fankboner, of Marion, Ind., Chief Engineer and General Superintendent of the U. S. Geological Survey's coal testing plant at the St. Louis Exhibition, died Oct. 6 from injuries received in being run over on the electric mining railway at the Exhibition.

V. Norman McGee, Assoc. M. Am. Soc. C. E., died at Colorado Springs, Colo., Sept. 28 of tuberculosis, contracted while serving as Professor of Civil Engineering in the Imperial University of China at Tien Tsin four years ago. Mr. McGee had been selected as Professor of Civil Engineering at Colorado College, and was to enter upon his duties at the beginning of the collegiate year. Mr. McGee was graduated from Leland Stanford University in 1894, and at once secured a position as Assistant Engineer of the Indianapolis Union Ry. In 1895 he became Chief Draftsman for the Vandalia R. R., leaving this position in 1896 to become instrumentman on location service for the Denver & Rio Grande and for the Sierra Madre & Pacific Ry. in the State of Chihuahua, Mexico. He was Assistant Engineer for the Southern Pacific Ry. from 1898 to 1900, and from that latter date to 1902 he was Professor of Civil Engineering at the Imperial University of China. In 1902 and 1903 he was connected with the New York Central & Hudson River R. R. as Assistant Engineer. He was 30 years old.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.

IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

ENGINE BUILDERS' ASSOCIATION OF THE UNITED STATES.
Dec. 2, 3, 1904. Annual meeting at New York, N. Y. Secy., D. Fleming, Harrisburg, Pa.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City. Secy., F. R. Hutton, 12 West 31st St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.—The annual meeting was held at St. Louis, Mo., on Oct. 4, 5 and 6. The principal matter of technical interest was the report of the committee on uniform boiler specifications, which was presented by the chairman of the committee, Mr. E. D. Meier, of St. Louis, Mo. The report stated that good progress had been made toward securing the adoption of uniform rules and regulations by the Navy Department. This question was taken up some time ago, as it was necessary, owing to the advanced methods of constructing boilers, to secure amendments to certain national laws governing the inspection of boilers of warships.

The officers elected were as follows: President, Robert Munroe, Jr., of Pittsburg; Treasurer, Joseph Wengler, of St. Louis; Secretary, J. D. Farasey, of Cleveland, O. The next meeting will be held at Toronto, Canada.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The annual convention was held at St. Louis, Mo., but as it was held in conjunction with the International Engineering Congress there were no sessions for reading and discussing papers, and only one business session was held. At the business session the President, Mr. Charles Hermany, of Louisville, Ky., read the annual presidential address, dealing particularly with the proper definitions of engineering and the engineer.

On motion of Col. Wm. P. Craighill, a vote of thanks was passed to the chairman (Mr. H. S. Haines) and secretary (Mr. C. W. Hunt) of the Committee in Charge of Arrangements for the International Engineering Congress, on account of the very successful arrangements made.

In regard to the selection of the place for the next annual meeting, the Secretary announced that 798 votes had been received, 586 of which were in favor of Cleveland, O. As to the time for the meeting, 600 votes were in favor of the month of June. A resolution to select Cleveland was voted down, but a resolution was passed to the effect that the society should acknowledge with thanks the invitation from that city, and that the whole matter should be referred to the Board of Directors, with power to act.

INTERNATIONAL AERONAUTICAL CONGRESS.—This one of the scientific congresses at the St. Louis Exhibition was held in the Transportation Building Oct. 4 and 5, with Prof. C. M. Woodward, of Washington University, in the chair. Mr. Willard A. Smith, Chief of the Department of Transportation, reviewed the arrangements made for aeronautic contests at the exhibition, including air-ships, balloons, aeroplanes and kites. Lieut.-Col. Capper, of the balloon corps of the British army, described the development of aeronautics in England. Prof. A. F. Zahm, of Washington, D. C., discussed the results of experiments to determine the pressure and skin friction of air upon plane and circular surfaces, showing that as the length of the surface increases the friction decreases, that friction increases with the density of the fluid, and that the friction exerted upon flat curved surfaces covered with smooth coatings was practically the same as on plane surfaces. In a paper on "The Distribution of Wind Pressures on Plane Surfaces," Prof. F. E. Nipher, of Washington University, stated that research and experiments along this line had not been very satisfactory.

At the second day's meeting the subject of varnishes and balloon fabrics was discussed by Mr. W. F. Ried, of London, England, and Mr. C. E. Meyer, of Utica, N. Y. Major Baden-Powell, President of the British Aeronautic Society, discussed "Kites and Their Uses," relating the experiments he had made with kites of various forms and sizes. Captain Von Tschudi, of the German Army Balloon Corps of Berlin, gave a brief resume of recent advancements made in German aeronautic circles along all lines, dwelling upon the practicability of balloon photography and its advantages in exploring unknown countries, as maps may be plotted from the photographs.

LEAGUE OF AMERICAN MUNICIPALITIES.—The eighth annual convention of the society was held in the City Hall of East St. Louis, Ill., on Oct. 4 and 5. Over one hundred were in attendance and an interesting program was carried out. Among the papers presented were: "Sewage Disposal," by Mr. Morrell Vrooman, City Engineer of Gloversville, N. Y.; "Refuse Destructors," by Mr. M. N. Baker, of the editorial staff of Engineering News, and "The Operation of a Municipal Gas Plant," by Mr. L. N. Case, Secretary of the gas and electric plants of Duluth, Minn.

On Thursday, Oct. 6, the society held a joint meeting with the American Civic Association in the Town Hall of the Model City on the grounds of the Louisiana Purchase Exposition. The meeting was presided over by Hon. John A. Butler, of Milwaukee, Wis. Hon. Jas. M. Head, Mayor of Nashville, Tenn., and President of the League, addressed the meeting on the aims and work of the league and urged that cities be given a greater measure of self-government and freedom from interference by the state legislatures. Mr. Chas. Carroll Brown, of Indianapolis, described the work of the American Society of Municipal Improvements. Papers were read by Mr. Chas. N. Gregory, Dean of the Iowa University Law School; Hon. Amasa S. Eaton, of Providence, R. I.; Dr. John H. Simon, Health Commissioner of St. Louis, and Prof. L. W. Howarth, of the University of Chicago. The convention concluded with a dinner tendered to the league by the mu-

nicipal officers of East St. Louis. The new officers of the league elected at the meeting are as follows:

President, Mayor William C. Crollius, Joliet, Ill.; Vice-Presidents, Mayor R. G. Rhett, Charleston, S. C., Mr. G. S. Brown, Baltimore, Md., and Mr. J. B. McCafferty, Wilmington, Del.; Secretary, Mr. John MacVicar, Des Moines, Ia.; Treasurer, Mayor William D. Morgan, Georgetown, S. C.; Trustees, Commissioner Henry Bohl, Columbus, O.; Mayor William M. Drennan, Birmingham, Ala.; Mayor Silas Cook, East St. Louis, Ill.; Mayor M. H. Krouse, Kokomo, Ind.; Comptroller Louis Betz, St. Paul, Minn.; Mayor James Baker, Lockport, N. Y.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.—The 11th annual convention was held at the Grand View Fraternal Hotel adjacent to the World's Fair Grounds at St. Louis, Mo., on Oct. 4, 5 and 6. A goodly number of members of the society were in St. Louis, but the rival attractions of the Exposition and the meetings of the International Engineering Congress, which was held during the same week, made the sessions of the society rather thinly attended. At the opening meeting on the afternoon of Oct. 4 about 20 members were present when the President, Mr. Geo. M. Ballard, of Newark, N. J., took the chair. After the election of a dozen new members, Secretary Geo. W. Tillson presented his report, which showed the society to be in excellent financial condition. The publication of the annual report has been turned over to a private firm which, for the coming year, will print an edition of 2,000 copies without expense to the society and will besides pay the society $10 per page for such advertisements as are obtained for publication in the report.

The first paper read was on the sewerage system of Little Rock, Ark., by Walter F. Reichardt, and was chiefly notable as an exposition of how not to do it and of the fact that all such engineering work must be based on sound legal enactments or great loss will result. The sewers in Little Rock have been built under a law which permits any set of property owners, covering any portion of territory, to organize a drainage district and build sewers. The result is a hodge podge. Many districts are left with no outlet save such as they may surreptitiously make into the sewers of some other district under cover of night. A large part of the sewers have been built without engineering design or superintendence; backfilling has been done with scrapers, deep sewers have been built in tunnels which were not properly filled afterward. The result is not only a sewerage system which cannot properly be called a system and a great portion of which will have to be rebuilt; but the ruin of the surface of many of the city's streets. The paper was commented upon by Messrs. Sherrerd, Tillson, Barrows, Adam and others, all of whom united in condemning the municipal or legislative mismanagement which produced such results. Prof. Folwell, of Easton, Pa., cited as another example of the results of unwise sewer legislation, the experience of San Francisco, Cal. There the sewers were also built by districts, and the grades of all sewers were fixed at a line 11½ ft. below the street surface. The size of the sewers of each district was fixed by a percentage of the property valuation for taxation. The result was that some 20-in. sewers emptied into 8-in. sewers.

Mr. Ernest Adam, of Newark, then read a paper on the pollution of the Passaic River and the proposed intercepting sewer planned to put a stop to the pollution. This subject was discussed by Messrs. Jas. Owen, C. C. Brown and others. A paper was then read by Mr. C. C. Brown on the influence of associations of citizens on municipal administration. Mr. Brown paid a high tribute to the Commercial Club of Indianapolis for the work it had done in furthering reform in the city government, and bringing about the undertaking of many important public works. He also referred to the work of the Merchants' Association of San Francisco and of New York.

Sessions of the society were also held on Wednesday and on Thursday, Oct. 5 and 6.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Oct.				
15	Foundry	Charleston, S. C.	S.	9-15
15	Dry-dock	Washington, D. C.	S.	9- 1
15	Towboat	Cuba	S.	8-18
15	Paving	Boston, Mass.	S.	10- 6
15	Dredging	Washington, D. C.	S.	10- 6
22	Dredging	Washington, D. C.	S.	9-29
22	Conduit system	Wash., D. C.	S.	10- 6
*26	Tower and tank	Kiel, Wis.	P. & S.	10- 6
29	Wharf, etc.	Washington, D. C.	S.	6-13
29	Pumping plant	Washington, D.C.	S.	10-13
Nov.				
*4	Harbor work	Chicago, Ill.	S.	10-13
Dec.				
*1	Bridge	Manila, P. I.	P., S. & B. S.	7-28

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	See issue.
	LIGHT, HEAT AND POWER PLANTS.		
Oct. 16.	Electric light plant	Nashville, Ark.	Oct. 13
Oct. 18.	Power house	Lincoln, Neb.	Sept. 29
Oct. 20.	Lights	Newburg, O.	Oct. 13
Oct. 21.	Bond sale	New Albany, Miss.	Sept. 29
	Advertised, Eng. News, Sept. 29 to Oct. 13.		
Oct. 25.	Electric system	Burlington, Vt.	Oct. 6
Oct. 31.	Electric lighting	Leon, Mexico	Oct. 6
Nov. 1.	Electric power plant	Searcy, Ark.	Oct. 13
Nov. 15.	Electric lighting	Harrisburg, Pa.	Oct. 13
	BRIDGES.		
Oct. 14.	Bridge	Vevay, Ind.	Sept. 29
Oct. 14.	Bridge	Canton, O.	Oct. 13
Oct. 14.	Bridge, steel	Albany, N. Y.	Oct. 13
Oct. 15.	Bridge	New Bern, N. C.	Oct. 13
Oct. 15.	Bridge	Prineville, Ore.	Sept. 29
Oct. 15.	Bridges	Mansfield, O.	Sept. 29
Oct. 15.	Bridges, steel	Wichita, Kan.	Sept. 29
Oct. 15.	Bridge, Rapid City	S. Dak.	Oct. 6
Oct. 17.	Bridge, Redwood City	Cal.	Oct. 13
Oct. 17.	Bridge approaches	Oklahoma City, Okla.	Oct. 13
Oct. 18.	Bridges, Indianapolis	Ind.	Oct. 13
Oct. 18.	Bridge, Hagerstown	Md.	Oct. 6
Oct. 18.	Bridge abutments, etc.,	Newark, N. J.	Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Oct. 18.	Bridge, Harrisburg	Pa.	Oct. 6
Oct. 20.	Bridges	Toledo, O.	Oct. 6
Oct. 20.	Bridge, concrete	Wabash, Ind.	Oct. 13
Oct. 24.	Bridge abutments	Westmoreland, Kan.	Oct. 13
Oct. 24.	Bridges, etc.,	Toledo, O.	Oct. 6
Oct. 24.	Bridge	Cleveland, O.	Oct. 6
Oct. 25.	Superstructure	New York, N. Y.	Oct. 13
Oct. 27.	Superstructure	Zanesville, O.	Oct. 13
Oct. 27.	Bridge, steel	Peru, Ind.	Oct. 6
Oct. 29.	Bridge	Cincinnati, O.	Oct. 13
Oct. 29.	Bridge, steel	Crookston, Minn.	Sept. 22
Nov. 1.	Bridge	Baltimore, Md.	Oct. 13
Nov. 4.	Bridge	New Orleans, La.	Sept. 15
	Advertised, Eng. News, Sept. 15 to Oct. 7.		
Nov. 7.	Bridges	Richmond, Ind.	Oct. 13
Nov. 15.	Bridges	Tipton, Ia.	Oct. 13
Nov. 15.	Bridge	Winnipeg, Man.	Oct. 6
Dec. 1.	Bridge superstructure	Manila, P. I.	July 28
	Advertised, Eng. News, July 28 to Dec. 1.		
	BUILDINGS.		
Oct. 14.	17 Buildings	Portland, Me.	Oct. 6
Oct. 14.	Training school	Duluth, Minn.	Oct. 13
Oct. 14.	School	Chicago, Ill.	Oct. 13
Oct. 15.	Barrack	Ft. Slocum, N. Y.	Sept. 29
	Advertised, Eng. News, Sept. 29 and Oct. 6.		
Oct. 15.	Remodeling jail	Dublin, Ga.	Sept. 29
Oct. 15.	Brick building	Charleston, S. C.	Sept. 15
Oct. 15.	Foundry (mfg. plants)	Charleston, S. C.	Sept. 15
Oct. 16.	Quarters	Fort Totten, N. Y.	Sept. 22
	Advertised, Eng. News, Sept. 22 to Oct. 13.		
Oct. 17.	Government building	Portland, Ore.	Sept. 22
	Advertised, Eng. News, Sept. 22 and 29.		
Oct. 17.	Brick building	Ft. Myer, Va.	Sept. 29
Oct. 17.	Electric equipment	New York, N. Y.	Oct. 6
Oct. 17.	Armory	Flushing, N. Y.	Oct. 6
Oct. 17.	Building	Galt, Ont.	Oct. 6
Oct. 18.	Post office	Nashua, N. H.	Sept. 22
	Advertised, Eng. News, Sept. 22 and 29.		
Oct. 19.	Building	Columbus, O.	Sept. 29
Oct. 19.	Hospital wiring	San Francisco, Cal.	Sept. 29
Oct. 20.	Brick school	Dayton, O.	Oct. 13
Oct. 22.	Buildings	Jackson, Miss.	Oct. 13
Oct. 24.	Post office	Hammond, Ind.	Sept. 22
Oct. 24.	Quarters	San Francisco, Cal.	Oct. 6
Oct. 24.	Museum	Ottawa, Ont.	Oct. 6
Oct. 25.	Court house	Huntington, W. Va.	Sept. 22
	Advertised, Eng. News, Sept. 22 and 29.		
Oct. 26.	Post office	Rock Hill, S. C.	Sept. 22
Oct. 26.	Steam heating	Pierre, S. Dak.	Oct. 6
Oct. 27.	Post office	Greeneville, Tenn.	Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Oct. 27.	Cut stone	Washington, D. C.	Sept. 29
	Advertised, Eng. News, Sept. 29 to Oct. 20.		
Oct. 29.	Naval building	New York, N. Y.	Oct. 13
Nov. 1.	School plans, etc.,	Birmingham, Ala.	Sept. 15
Nov. 1.	Post office	Evanston, Ill.	Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Nov. 2.	Post office	Oak Park, Ill.	Oct. 6
Nov. 2.	Ventilating apparatus	Washington, D. C.	Sept. 8
	Advertised, Eng. News, Sept. 8 and 15.		
Nov. 3.	Electric wiring	Athens, Ga.	Oct. 13
	Advertised, Eng. News, Oct. 13 and 20.		
Nov. 7.	Court house	Dothan, Ala.	Oct. 13
Nov. 7.	Ventilating apparatus	Washington, D. C.	Sept. 15
Nov. 7.	Post office	Lawrence, Kan.	Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Nov. 9.	Post office	Flint, Mich.	Oct. 6
Nov. 10.	Laboratory buildings	Washington, D. C.	Sept. 22
	Advertised, Eng. News, Sept. 22 to Nov. 3.		
Nov. 14.	Post office	Adrian, Mich.	Oct. 13
Nov. 17.	Hospital buildings	Schenectady, N. Y.	Oct. 6
	WATER SUPPLY AND IRRIGATION.		
Oct. 14.	Water-works	Seaforth, Minn.	Sept. 29
Oct. 14.	Pipe	Montgomery, Ala.	Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Oct. 14.	Boiler house	Youngstown, O.	Oct. 13
Oct. 15.	Water-works	Bordentown, N. J.	Sept. 22
	Advertised, Eng. News, Sept. 22 and 29.		
Oct. 17.	Water-works	Minden, La.	Sept. 29
Oct. 17.	Well, reservoir, etc.,	Delaware City, Del.	Sept. 29
	Advertised, Eng. News, Sept. 29 and Oct. 6.		
Oct. 17.	Laying mains	South St. Paul, Minn.	Oct. 13
Oct. 19.	Laying water mains	New York, N. Y.	Oct. 13
Oct. 19.	Water-works	Summit, Ill.	Oct. 6
Oct. 21.	Water-works	Greeley Center, Neb.	Oct. 13
Oct. 22.	Settling basins, etc.,	Omaha, Neb.	Oct. 13
	Advertised, Eng. News, Oct. 13.		
Oct. 22.	Water system extension	Ft. Douglas, Utah	Sept. 29
Oct. 25.	Water system	Wittenberg, Wis.	Oct. 6
Oct. 26.	Tower, tank, etc.,	Kiel, Wis.	Oct. 6
	Advertised, Eng. News, Oct. 6.		
Oct. 28.	Water distributing system	Prescott, Ariz.	Sept. 29
	Advertised, Eng. News, Sept. 29 to Oct. 27.		
Oct. 29.	Pumping engines, etc.,	Kansas City, Mo.	Oct. 13
	Advertised, Eng. News, Oct. 13 and 20.		
Oct. 29.	Pumping plant, etc.,	Washington, D. C.	Oct. 13
Oct. 31.	Lead pipe, etc.,	Victoria, B. C.	Sept. 29
Nov. 1.	Water-works, etc.,	Summerside, P. E. I.	Aug. 25
Nov. 9.	Pumping machinery	New Orleans, La.	Sept. 1
	Advertised, Eng. News, Sept. 1 to Nov. 10.		
Nov. 17.	Pumping engines	Chicago, Ill.	[illegible]
	Advertised, Eng. News, Sept. 22 to Nov. 17		
Nov. 23.	Hydrants	New York, N. Y.	[illegible]
No date.	Well	Central Valley, N. Y.	[illegible]
	Advertised, Eng. News, Oct. 13.		
	SEWERAGE.		
Oct. 13.	Sewers	Washington, D. C.	[illegible]
	Advertised, Eng. News, Oct. 6.		
Oct. 14.	Sewers	Passaic, N. J.	[illegible]
Oct. 15.	Sewer work	Milford, Neb.	[illegible]
Oct. 15.	Sewage station	Chicago, Ill.	[illegible]
Oct. 17.	Sewer	Winona, Minn.	[illegible]
Oct. 17.	Sewer	Richland Center, Wis.	[illegible]
Oct. 17.	Sewer system	New Albany, Ind.	[illegible]
Oct. 17.	Sewer system	Anadarko, Okla.	[illegible]
Oct. 18.	Chimney, etc.,	Chicago, Ill.	[illegible]
Oct. 18.	Sewer system	Irvington, N. J.	[illegible]
Oct. 19.	Removing silt	Brooklyn, N. Y.	[illegible]
Oct. 19.	Sewer system	Washington, D. C.	[illegible]
Oct. 19.	Sewers	Brooklyn, N. Y.	[illegible]
Oct. 19.	Sewers	Cleveland, O.	[illegible]
Oct. 20.	Sewer pipe, etc.,	Washington, D. C.	[illegible]
	Advertised, Eng. News, Sept. 22 to Oct. 20.		
Oct. 20.	Sewer pipe	San Diego, Cal.	[illegible]
Oct. 22.	Sewer	Ashtabula, O.	[illegible]
Oct. 22.	School work	New York, N. Y.	[illegible]
Oct. 24.	Sewer system	Rockyford, Colo.	[illegible]
Nov. 1.	Sewerage	Summerside, P. E. I.	[illegible]
Dec. 2.	Sewers	Omaha, Neb.	[illegible]
	STREETS AND ROADS.		
Oct. 13.	Macadamizing	Cincinnati, O.	Oct. 6
Oct. 13.	Paving, etc.,	Guthrie, Okla.	Oct. 6
Oct. 13.	Roads, gravel	Brownstown, Ind.	Sept. 22
Oct. 13.	Paving, etc.,	McKees Rocks, Pa.	Sept. 29
Oct. 14.	Macadamizing	White Plains, N. Y.	Sept. 29
	Advertised, Eng. News, Sept. 29 to Oct. 20.		
Oct. 14.	Paving	Buffalo, N. Y.	Oct. 13
Oct. 15.	Paving	Swissvale, Pa.	Oct. 13
Oct. 15.	Paving, brick	Parkersburg, W. Va.	Oct. 13
Oct. 15.	Paving	Wooster, O.	Oct. 13
Oct. 15.	Paving, etc.,	Boston, Mass.	Oct. 6
Oct. 17.	Grading	Port Townsend, Wash.	Oct. 6
Oct. 17.	Macadamizing, etc.,	Muncie, Ind.	Oct. 6
Oct. 17.	Paving	Steubenville, O.	Oct. 6
Oct. 17.	Paving	Sedalia, Mo.	Sept. 29
Oct. 17.	Graveling	Asbury Park, N. J.	Oct. 13
Oct. 18.	Paving	New Brighton, N. Y.	Oct. 13
Oct. 18.	Paving	Marion, Ind.	Oct. 13
Oct. 18.	Paving	Chicago, Ill.	Oct. 13
Oct. 19.	Grading, etc.,	Blaine, Wash.	Oct. 6
Oct. 19.	Macadamizing, etc.,	Cincinnati, O.	Oct. 6
Oct. 20.	Paving, etc.,	Cincinnati, O.	Sept. 29
Oct. 20.	Grading	Janesville, Wis.	Oct. 13
Oct. 20.	Paving	Austin, Tex.	Oct. 13
Oct. 21.	Paving	Dayton, O.	Oct. 13
Oct. 24.	Road	Harrisburg, Pa.	Oct. 13
Oct. 24.	Sidewalks	Canton, O.	Oct. 13
Oct. 24.	Paving	Atlantic City, N. J.	Oct. 13
	Advertised, Eng. News, Oct. 13.		
Oct. 24.	Paving	Helena, Mont.	Oct. 6
Oct. 24.	Macadamizing	Muncie, Ind.	Oct. 6
Oct. 24.	Road	Williamsport, Pa.	Oct. 6
Oct. 26.	Paving, etc.,	Cincinnati, O.	Oct. 6
Oct. 26.	Sidewalks, cement	Elkhart, Ind.	Oct. 13
Oct. 28.	Roads, etc.,	San Francisco, Cal.	Oct. 6
No date.	Paving, brick	Morris, Ill.	July 21
	Advertised, Eng. News, July 21 to Oct. 13.		
	MISCELLANEOUS CONTRACTS.		
Oct. 13.	Breakwater	Ottawa, Ont.	Oct. 6
Oct. 13.	Railroad franchise	California	Sept. 29
Oct. 14.	Fences and gates	Chattanooga, Tenn.	Sept. 29
	Advertised, Eng. News, Sept. 29 to Oct. 20.		
Oct. 14.	Magazine	Winnipeg, Man.	Oct. 6
Oct. 14.	Boilers	Emporia, Kan.	Oct. 13
Oct. 15.	Tunnel, etc.,	Lincoln, Neb.	Oct. 13
Oct. 15.	Dredging	Washington, D. C.	Oct. 6
Oct. 15.	Tug boat	Cuba	Aug. 18
Oct. 15.	Plans for harbor	Sweden (Foreign)	April 21
Oct. 15.	Completing dry-dock	Washington, D. C.	Sept. 1
Oct. 15.	Dam	Hendrix, Pa.	Sept. 8
Oct. 17.	Earthwork	New Orleans, La.	Oct. 13
Oct. 17.	Boilers, stack	Tarentum, Pa.	Oct. 13
Oct. 18.	Wire, electrical supplies	Wash, D. C.	Oct. 13
Oct. 18.	Crematory	Fort Sam Houston, Tex.	Sept. 29
Oct. 19.	Elevator	Washington, D. C.	Sept. 29
Oct. 20.	Dump cars, cement, etc.,	Panama	Sept. 22
	Advertised, Eng. News, Sept. 22 to Oct. 20.		
Oct. 20.	Electric railway	Ithaca, N. Y.	Oct. 6
	Advertised Eng. News, Oct. 6.		
Oct. 20.	Lumber and wire	New York, N. Y.	Oct. 6
Oct. 20.	Elevator, boilers	New York, N. Y.	Oct. 13
Oct. 20.	Underground conduits, etc.,	N. York, N. Y.	Oct. 13
Oct. 20.	Night soil removal	New York, N. Y.	Oct. 13
Oct. 20.	Coal tunnel	Wilkesbarre, Pa.	Oct. 13
Oct. 20.	Timber jetty	New York, N. Y.	Oct. 13
Oct. 21.	Railway construction	Prince Ed. Island	Oct. 13
Oct. 21.	Tower clock	Huntington, Ind.	Oct. 6
Oct. 21.	Riprap stone	Tompkinsville, N. Y.	Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Oct. 22.	Conduits	Washington, D. C.	Oct. 6
Oct. 22.	Railway construction	Brazil	Aug. 25
Oct. 22.	Dredging	Washington, D. C.	Sept. 29
Oct. 25.	Lamps, drills, etc.,	Washington, D. C.	Oct. 13
Oct. 26.	Launch	New York, N. Y.	Oct. 6
Nov. 4.	Harbor work	Chicago, Ill.	Oct. 6
	Advertised, Eng. News, Oct. 6 to Nov. 3.		
Nov. 10.	Docks, moles and forts	Chili	Aug. 18
Nov. 14.	Ditch, etc.,	Bloomfield, Mo.	Oct. 6
Nov. 23.	Telegraph material	Australia	Oct. 6
Oct. 27.	Tunnel	Boston, Mass.	Oct. 13
	Advertised, Eng. News, Oct. 13 and 20.		
Oct. 28.	Dredging	New London, Conn.	Oct. 13
	Advertised, Eng. News, Oct. 13 to Nov. 3.		
Oct. 28.	Boiler	Reading, Pa.	Oct. 13
	Advertised, Eng. News, Oct. 13 and 20.		
Oct. 29.	Wharf, etc.,	Washington, D. C.	Oct. 13
Nov. 2.	Dredging	Washington, D. C.	Oct. 13
	Advertised, Eng. News, Oct. 13 and 20.		
Nov. 7.	Pipe scow	Philadelphia, Pa.	Oct. 13
	Advertised Engineering News, Oct. 13 to Nov. 10.		
Nov. 7.	Air compressor	Montgomery, Ala.	Oct. 13
	Advertised, Eng. News, Oct. 13 and 20.		
Nov. 8.	Machine tools	Washington, D. C.	Oct. 13
Nov. 30.	Timber, drainage	New Orleans, La.	Sept. 29
	Advertised, Eng. News, Sept. 29 to Dec. 1.		
Dec. 15.	Battleship	Washington, D. C.	Sept. 29

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RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—Bids will be received on Oct. 20, according to report, for construction of 12-mile extension from Owasso, Ind. T., to Tulsa, as noted last week. Work is in charge of Woodbury Howe, Asst. Engr. Offices of the company are at Topeka, Kan.

Denver, Colo., press report state that this company has obtained the Sonora Pass over the Rockies. It is now completing surveys that will give it a direct and short

line from Denver to San Francisco, several important connecting links in California having recently been purchased.

ATLANTA & CAROLINA.—According to "Tradesman Price Sheet Bulletin" preliminary survey from Atlanta, Ga., to Anderson, S. C., has been made. There will be about 146 miles of construction. It is estimated that this will average in cost about $16,000 per mile. J. R. Hosch and J. Eugerton, of Hoschton, Ga., are the promoters of this line.

BALTIMORE & OHIO.—It is reported again that this company will spend about $1,000,000 for improvements at Fairmount, W. Va., that is the junction of three divisions. Work would include building new freight yards and increasing its car and locomotive repair shops.

BAYFIELD, LAKE SHORE & WESTERN.—J. Stevenson, Pres., Bayfield, Wis., writes us that contract for grading has been awarded to H. M. Juel, of Cornucopia, Wis., and that contract for clearing right of way has been let to Fred. Closen, of same city. It is planned to finish the line from Bayfield to Cornucopia, 15 miles, this season it is reported. The remaining 55 miles are to be finished before the end of next year. H. C. Hale, Secy.

CANADIAN PACIFIC.—Sir Thomas G. Shaughnessy, Pres., has stated that the entire line from Montreal, Que., to the Pacific coast will be double-tracked. W. F. Tye, Ch. Engr., Montreal, Que. H. B. Walkern, Vancouver, B. C., is Resident Engr.

DELTA SOUTHERN.—This company, recently incorporated to extend a branch of the Southern Railway from Leland north to Kuhns, Miss., and from Percy south to Campbellsville, about 45 miles, has organized by electing J. S. B. Thompson, of Atlanta, Ga., Pres.; E. D. Duncan, Secy., and H. C. Ansell, Treas. Headquarters of the company will be at Greenville, Miss.

DENVER, NORTHWESTERN & PACIFIC.—Contract for grading this line between Arrowhead, Colo., and Hot Sulphur Springs, 25 miles, has been let to Orman & Crook, Pueblo, Colo. Cost will be about $500,000. H. A. Sumner, Denver, Colo., is Ch. Engr. A. C. Ridgway, Gen. Mgr., at Denver, Colo., writes us that 77 miles westerly from Denver are completed and in operation; 35 miles of the line are being graded. Other contracts will be let soon. Projected length is 500 miles, from Denver to Salt Lake City, Utah. D. H. Moffatt, Denver, is Pres.

DENVER & RIO GRANDE.—E. J. Yard, Ch. Engr., writes us that survey is being made for a branch from Sargeants to Whitepine and Tomich, Colo., about 12 miles. E. T. Jeffrey, 195 Broadway, New York, is Pres.

GREAT NORTHERN.—It is reported that contracts will be let at once for constructing proposed connection between Great Northern Ry. and the Northern Pacific Ry. at Redlake Falls, Minn.

Contract for building an extension of the Lakota branch from Edmore, N. Dak., north 40 miles, has been awarded to A. Guthrie & Co., of St. Paul, Minn., and a sub-contract has been given to A. L. Riley, of St. Cloud, Minn., who will begin work at once, it is stated. A. H. Hogeland, Ch. Engr., St. Paul, Minn.

GALVESTON, HARRISBURG & SAN ANTONIO.—Surveys are said to have been run by this company for a cut-off to traverse the Fort Hancock fields in El Paso County to shorten its line. E. B. Cushing, Engr. M. W., at Houston, Tex. C. R. Morrill is Resident Engr., at El Paso.

GULF & SHIP ISLAND.—This company is reported to have under consideration expenditure of over $500,000 in improvements that will consist of another pier on the south side of the anchorage basin, 3,340 ft. in length and 40 ft. wide. The new pier will be built of creosoted material and will be double-tracked its entire length. W. W. Vail, Ch. Engr., and W. T. Stewart, Purchasing Agt., may be addressed at Gulfport, Miss.

ILLINOIS TERMINAL.—T. C. Moorshead, Chief Engr., Alton, Ill., is reported as stating that all concrete work will be reinforced and that over the Wabash River the company is building a 102-ft. through plate girder, with I-beams and concrete floor system. John Scott Sons and the Walsh Construction Co., both of St. Louis, Mo., have contracts. Mentioned previously.

INTERCOLONIAL.—Bids were advertised to be received at Moncton, N. B., on Oct. 10 by D. Pottinger, Gen. Mgr., for building new stations and freight sheds at Mitchell, Que., and at Aulac, N. B. Separate bids were also wanted Oct. 12 at the same address for building brick and stone passenger stations at Pictou, N. S., and at Antigonish, N. S.

KANSAS CITY, OKMULGEE & GULF.—W. E. Wood, Secy., Okmulgee, Ind. T., has stated, according to reports, that this recently chartered company will build a railroad from Kansas City, Mo., to the south line of Indian Territory, a distance of 500 miles. It is expected to begin construction about Jan. 1, 1905. T. H. Smith is Pres.; W. M. Jackson, vice-Pres., and George McLagan, Treas. Headquarters at Okmulgee, Ind. T.

MANISTEE & GRAND RAPIDS.—E. W. Muenscher, Ch. Engr., Manistee, Mich., informs us that this railroad was sold on Oct. 5 to a syndicate of capitalists that has organized a new company with J. Crocker, of Chicago, as Pres. and Max Tolz, vice-Pres. and Gen. Mgr. The road will be extended eastward at once.

MIDLAND VALLEY.—State Board of Railway Incorporation of Arkansas has granted this company permission to extend its line from a point at or near Boles, Scott county, to the southern line of Montgomery county, a distance of 55 miles. Directors have voted to increase the capital stock of the company from $5,000,000 to $9,000,000. Of the increased stock, $1,000,000 is to cover the cost of the extension of the line in Arkansas and the remainder to cover the extension of the line in Oklahoma and Indian Territories. Company already has completed and in operation a line 33 miles in length in Sebastian county. The road has been promoted by the men who were interested in the building of the Choctaw. The present directors are C. E. Ingersoll, Henry Talvall, E. B. Morris, Wm. H. Jenks, F. A. Molitor, F. Bache, J. W. McLoud, A. W. Lefeber and J. R. Startzell.

OMAHA & NEBRASKA CENTRAL.—Surveys will be run for a terminus in Hastings, Neb. Franchise has been granted to this company by Hastings City Council under the terms of which the contract for the construction of the road must be let to responsible parties within four years, and a showing made on the work. The company will begin securing the right of way at once, now that one terminus is arranged for.

OREGON SHORT LINE.—Shoshone, Idaho, report states that the company will soon begin the construction of a branch from Minidoka, Idaho, to Twin Falls City, on the Snake River. Wm. Ashton, Salt Lake City, Utah, is Ch. Engr. J. P. Congdon is Division Engr., at Pocatello, Idaho.

PRINCE EDWARD ISLAND RY.—Bids are asked until Oct. 21 by D. Pottinger, Gen. Mgr., at Moncton, N. B., for grading, track-laying, ballasting, building, etc., in the construction of a branch line of railway 4.59 miles long, to Vernon River Bridge, P. E. I. Plans, profile and specification may be seen at the Engineer's Office, Charlottetown, P. E. I.

RIO GRANDE, SIERRA MADRE & PACIFIC.—W. C. Greene and Frank N. Murphy are reported to have bought this road extending from El Paso, Tex., to Terrazas, Mex., 156 miles. They will, it is said, extend it southwest to the coast. J. Fewson Smith, Ch. Engr., may be addressed at El Paso, Tex.

TEXAS.—The East Texas Construction Co. has been incorporated at Marshall to construct steam and tram roads in Texas. J. A. Hull of South McAlester, Ind. T., is Pres.; L. B. Morrison, vice-Pres. and Mgr.; H. L. Hull, Jr., of Fort Worth, is Secy. and Treas.

WEST JERSEY & SEASHORE.—This company plans extensive improvements along its line, that will cost about $2,000,000. Directors have voted to increase stock by issuance of $1,225,000 of new shares. This will be used for acquiring a one-half interest in the terminal station in Camden, jointly used by this company and the Pennsylvania Railroad Co. Also for other construction and equipment expenditures in connection with the elevation of tracks in Camden; the revision of the grade of the trolley line in Atlantic City, the paving of Atlantic Ave. and improvement of facilities; elimination of grade crossings, the construction of terminal improvements at Cape May, and for other purposes. Work probably will begin at once. A. J. Whitney, Camden, N. J., is Asst. Engr.

NEW INCORPORATIONS AND CHARTERS.

INTER-CITY LINK RY.—N. J.—Incorporated in New Jersey to construct a tunnel under Delaware River between Philadelphia and Camden. Pennsylvania charter was obtained for one-half of the proposed tunnel and a New Jersey charter the balance. Capital stock of the New Jersey corporation is $125,000. The line that will be run through the tunnel will commence below Market St. and Delaware Ave., Camden, extending out to the middle of the Delaware River, where its tracks will connect with the roadway to be constructed under the laws of this State, it is stated. New Jersey line will be less than two miles in length. Clarence Wolf, 1420 Girard Ave., Philadelphia, Pa.; Benj. Wolf, 1313 North Broad St., Philadelphia, Pa.; Wm. D. Slanger, Merchantville, N. J., and others are incorporators. Previously mentioned.

LIBERTY CITY, GLENNVILLE & MANASSAS.—Ga.—This company has been chartered to build a 30-mile line in Georgia. Capital, $150,000.

ST. PETERSBURG & GULF.—Fla.—Chartered with a capital of $25,000, to construct line of railway and to operate system of telegraph and telephones by the use of steam, electricity or compressed air, from St. Petersburg, through Disston City, to a point on the Gulf coast, the approximate distance of eight miles, with the right of power to extend any of its lines into any other county in the state. F. A. Davis, Gus S. Gandy and W. L. Haddock, all of Philadelphia, are the incorporators.

STREET AND ELECTRIC RAILWAYS.

YORK BEACH, ME.—We are informed that the car barn of the Portsmouth, Dover & York Street Ry. Co. was burned. Loss, $25,000. Geo. E. Macomber, of Augusta, is a director.

NEW LONDON, CONN.—The East Lynne Street Ry. Co. will build a line from this city through Waterford to Niantic, and will be about 11 miles in length. Cost of construction will be about $250,000 if a power house is erected. Company is practically ready to award the contract for building the line. Thomas Hamilton is Pres.

ALBANY, N. Y.—The Buffalo, Batavia & Rochester Electric Ry. Co. has incorporated, with a capital of $3,500,000, to construct an electric railroad, 65 miles long, from Williamsville, Erie County, to Rochester, with a branch to Akron, Erie County. The directors are: Loran L. Lewis, Stuart R. Mann, Spencer Kellogg, Geo. L. Lewis and others of Buffalo., and William C. Carroll of Buffalo, and Lafayette L. Grove of Williamsville. The principal office is in Buffalo.

NEW YORK, N. Y.—About 100 miles of the Long Island Railroad system will be operated by electricity early next spring. The work of changing the power will begin soon.

UTICA, N. Y.—E. G. Connette, Vice-President and General Manager of the Rapid Transit Railway Co., of Syracuse, says that the West Shore Railroad will be electrified next year between Utica and Syracuse. The work of equipping that section of the road for electric service will probably begin in the spring. After the completion of this work attention will be given to the Auburn branch of the New York Central, which is to be double-tracked and electrified.

HOBOKEN, N. J.—The Public Service Corporation will lay tracks this winter through streets open to it by trolley franchises which will be granted very shortly. It is reported that orders will soon be placed for rails, poles, wires, etc.

PITTSBURG, PA.—Surveys have been made for the Pittsburg and Westmoreland electric road. The main line will extend from McKeesport to Irwin, Pa., with a branch from Irwin through Hahntown, Hilltown and Madison to Edna No. 2. H. D. Hershey of Irwin, is Gen. Mgr.

SHARPSVILLE, PA.—Pittsburg and Cleveland capitalists have organized a company and will build an electric street railway from Sharpsville to Conneaut Lake, a distance of 50 miles. The company, which is headed by W. H. Walker of Cleveland, and C. G. Hussey of Pittsburg, is capitalized at $1,000,000.

ATLANTA, GA.—It is said here that New York capitalists will invest over $2,000,000 in the proposed electric line, to be known as the Atlanta & Carolina Railway, to run from Atlanta to Anderson, S. C., provided that interested parties along the right of way will raise $150,000. The preliminary survey of the line has already been made, and calls for about 146 miles of road. It is estimated that this will average about $16,000 per mile for construction. The capitalists are willing to put $15,000 per mile in the road, provided those along the road will contribute $1,000 per mile. This amount has already been guaranteed. Four water power stations, situated along the line, will be developed for generating power for the system. The road will connect at Anderson with another electric line, now being built from that place to Greenville, S. C.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

PADUCAH, KY.—J. J. Freundlich, C. E. Whitesides, J. J. Read, of Paducah, and others, are the incorporators of the Kentucky & Ohio River Interurban Co. Capital stock, $250,000. Company intends building an electric line from Paducah to Cairo, taking in small cities between. Most of the right of way has been secured.

COLUMBUS, O.—The Columbus, Urbana & Western Electric Ry. Co. filed a mortgage with County Recorder Wickham covering its real estate, franchises and other property. This mortgage is given to secure an issue of first mortgage bonds amounting to $2,000,000. The mortgage provides that the proceeds of $400,000 worth of bonds shall be used to complete and equip the road from the Interurban loop to the Olentangy road. Chas E. Prior is Pres.

WABASH, IND.—We are informed that the contract for grading the Wabash & Rochester Electric Railway has been let to J. L. Stanley. The line is 36 miles long, ten of which has been graded. Contracts have been let for a portion of the material. Jerry Bartholomew is Ch. Engr. N. D. Pound is Pres. and Gen. Mgr.

MONROE, MICH.—Surveyors are laying out a route along the lake shore from Pointe Place, a few miles north of Toledo, to Monroe Beach. The plan is to traverse the marsh lands, making an embankment by dredging and extending the Pointe Place road, which now runs from the Toledo casino to Monroe Piers.

AURORA, ILL.—A contract for construction of Aurora, DeKalb & Rockford Electric Traction Co.'s line between Aurora and DeKalb has been given to Wm. C. Ross & Co., 1048 National Life Bldg., Chicago.

DECATUR, ILL.—The capital stock of the interurban electric line, which is to be built between this city and Bloomington, will be $50,000. The main offices will be in Decatur.

TWO RIVERS, WIS.—It is an assured fact that the electric line connecting this city with Green Bay will be built early next year. The Knox Construction Co., of Green Bay, will build a line from Green Bay to Mishicott, where connection will be made with the Higgins line, which will be built north from here. A franchise will not be asked for, it is announced, but right of way will be purchased.

HASTINGS, NEB.—The City Council has granted a franchise to the Omaha & Central Nebraska Electric Ry. Co. to operate their line in Hastings.

BRYAN, TEX.—Business men of Bryan and College are trying to secure the construction of an electric railway between the two towns. W. E. Saunders, Pres. Business League, can give information.

DALLAS, TEX.—W. F. Potter, representative of the syndicate of Chicago men who are promoting the building of an interurban electric railway from Dallas to McKinney, says that it has been determined to extend the line to Bonham. All preliminary arrangements for construction have been completed and the contract will soon be let. It will be about 100 miles long and traverse the most populous section of the state.

CENTRALIA, WASH.—John B. Weddell, A. S. Caton and W. E. Haycox have applied to City Council for a franchise for an electric street railway. The matter has been referred to the City Attorney.

SAN BERNARDINO, CAL.—It is rumored that the Bernardino Traction Co. will shortly extend its line to Rialto.

SAN DIEGO, CAL.—E. Bartlett Webster was awarded the franchise for an electric street railway by City Council, his bid of $255 being the highest.

HAMILTON, ONT.—Hines & Bickerson say they intend to build the proposed electric railway from Hamilton to Brantford via Ancaster.

LIGHT, HEAT AND POWER PLANTS.

PORTSMOUTH, N. H.—Rockingham County Light & Power Co. has increased its capital stock from $750,000 to $1,000,000.

HOLYOKE, MASS.—Municipal Electric Light Department is reported to be considering improvement of motive power of electric light plant at a cost of $28,000.

GLENWOOD (L. I.), N. Y.—Nassau Light, Heat & Power Co., Roslyn (L. I.), N. Y., will, it is stated, within 18 months complete a gas plant at this place, costing about $500,000, and which will supply villages and towns in Nassau County.

RAMAPO, N. Y.—Ramapo & Rockland Gas Co. has been incorporated with $250,000 capital to operate in Ramapo, Clarkstown, Orangetown, Suffern and Spring Valley. S. H. M. Agens, East Orange, N. J., and D. W. Lafetray, Ridgewood, N. J., are interested.

ALLEGHENY, PA.—C. F. Knapp, Allegheny, representing Langenheim, Cochran & Co., is stated to have secured contract at $33,472 for rebuilding and remodeling burned electric light plant on Braddock St.

GLENSIDE, PA.—Philadelphia Rapid Transit Co., Eighth and Dauphin Sts., Philadelphia, has invited sub-bids for one-story, brick and steel power house at this place. Steam heating and electric lighting, power equipment, etc., will be installed.

HARRISBURG, PA.—Bids are asked until Nov. 15 for furnishing electric light and power for the several departments of the State Government. Bids are to include and cover wiring, globes, carbons, etc. J. M. Shumaker, Supt. Pub. Grounds and Bldgs.

PHILADELPHIA, PA.—Dodge & Day, Engrs., Philadelphia, have placed the orders for generators and motors for Alexander Bros., Philadelphia, with the Western Electric Co.; for the shafting, hangers, etc., with Geo. V. Cresson Co., and wiring with Buchanan Co., all of Philadelphia. This firm of engineers have just been commissioned to install a heating system in the building lately acquired by Alexander Bros., at No. 412 North Third St., Philadelphia, and have also taken charge of the installation of additional motors at the plant of Schaum & Uhlinger, Second St. and Glenwood Ave., Philadelphia.

WILKESBARRE, PA.—Luzerne County Gas Co. and Wyoming Valley Electric Light Co. are stated to have sold their plants to Forrest & Co. and Chas. B. Miller, of Philadelphia, and J. G. White & Co., New York, these parties representing Philadelphia and New York capitalists. New company will be formed with capital of $1,500,000, and both gas and electric plants will be improved at a cost of $500,000.

NEW CASTLE, DEL.—It is proposed to erect an electric light plant in connection with the projected water-works, for establishment of which James M. Seabury, Philadelphia, Pa., representing Delaware Water Improvement Co., has made proposition to council.

BALTIMORE, MD.—Baltimore Electric Power Co. was incorporated Oct. 5 with capital stock of $2,500,000. This is said to be the company which will construct the power and light plant of the Maryland Telephone Co. David E. Evans, Pres., and Henry W. Webb, Vice-Pres. and Gen. Mgr. of the latter company, are interested.

RICHMOND, VA.—Union Gas Co. has been chartered here with $50,000 capital stock. Frederick M. Dyer, 207 West 81st St., New York, is Pres., and Walter S. Seabury, Maplewood, N. Y., Secy. and Treas.

CLINTON, S. C.—See under Water-Works.

EATONTON, GA.—The Putnam Mills & Power Co. has been incorporated with a capital of $75,000, with privilege of increasing to $500,000. Company will develop water power and erect electric plant. Company will also manufacture cotton goods of various kinds. James B. Floyd, Thomas B. Floyd, O. B. Nisbet and others are the incorporators.

PADUCAH, KY.—H. H. Humphreys, Elec. Engr., St. Louis, Mo., is to draw plans for enlargement of city electric light plant, and service to be made next year. Saunders Fowler is Secy. Bd. Pub. Service.

STURGIS, KY.—Tradewater Coal Co., according to reports, will spend $25,000 for installing electric light plant for its mines and for lighting town. W. F. McMurray is Engr.-in-Charge.

WEBSTER, KY.—The Sebree Light & Power Co., of Webster, has been incorporated with a capital of $10,000.

NEWBURG, O.—Bids are asked until Oct. 20 for furnishing labor and materials for lights for this city. W. H. Jantzen, Clk. Bd. Pub. Service.

PANA, ILL.—Pana Gas Light, Fuel & Steam Heating Co. has been granted a franchise by the City Council to construct a plant and lay pipe in streets of city, it is reported.

LOCKPORT, ILL.—The Wellman-Seaver-Morgan Co., of Cleveland, O., has been awarded contract for furnishing and installing turbines and governors at Lockport for development of waters of Chicago Drainage and Ship Canal, as follows: (a) Four power units; (b) two exciter units; (c) four power unit governors; (d) two exciter unit governors. (a) $77,000; (b) $7,000; (c) $4,048; (d) $1,682. The Stillwell, Bierce & Smith Valle Co. was lowest bidder on total work at $85,894.

OSHKOSH, WIS.—H. M. Byllesby & Co., New York Life Bldg., Chicago, have been appointed engineers and consulting managers of the Oshkosh Gas Light Co., of Oshkosh. This company has purchased the plant of the Oshkosh Electric Light & Power Co., formerly owned by the United Electric Securities Co., of Boston, Mass.

WAVERLY, IA.—City has voted to construct a municipal electric light plant. F. H. Munger is Cy. Clk.

EXCELSIOR, MINN.—The Excelsior Gas Co. has been incorporated, with a capital of $25,000, to supply the village with gas for lighting and heating purposes. J. and E. G. Kosko, of Minneapolis, and F. W. Muckey and F. J. Behm, of Excelsior, are the incorporators.

MINNEAPOLIS, MINN.—Pacific Power Co. has been incorporated with a capital of $1,000,000. Incorporators are G. E. Maxwell, G. B. Darling and Sidney R. Mather, all of Minneapolis. The company will produce, manufacture and sell electric energy generated by water power. Headquarters will be in Minneapolis and a branch office will be established in San Francisco.

LINDSBORG, KAN.—The Commercial Club is interested in the construction of an electric light plant, to cost $12,000. G. E. Eberhard, Club Secy.

BRUNSWICK, MO.—W. K. Palmer, Consult. Engr., 718 Dwight Bldg., Kansas City, will prepare plans, specifications and estimates for electric light plant and waterworks for this city. Mr. Palmer will also superintend the construction.

NASHVILLE, ARK.—Bids are asked until Oct. 16 for construction of an electric light plant. Probable cost, $5,000.

LITTLE ROCK, ARK.—Electric light plant improvements are under consideration. Cost, about $10,000.

SEARCY, ARK.—Bids are asked by Board of Public Improvements until Nov. 1 for the erection of power house and electric light plant complete. Plans and specifications on file at office of Owen Ford, Engr., 710 Security Bldg., St. Louis, Mo. Emmet Snipes, Secy.

MILTON, ORE.—J. H. Cunningham, 740 Chamber of Commerce Bldg., Portland, Ore., informs us that he will build a 250-HP. power plant on the Walla Walla River for this city; $7,000 of bonds have been sold.

HAINES, ORE.—John F. O'Bryant has been granted a franchise to supply that city with power for electric lights and other purposes for a period of 20 years.

HARRISON HOT SPRINGS, B. C.—Harrison Lake Power Co. will, it is reported, build a new power house to utilize the 30,000 HP. at Rainbow Falls, about five miles from this city. C. E. J. Fader, of New Westminster, B. C., is interested in the project.

CHILLIWACK, B. C.—The Chilliwack Light & Power Co. has secured a franchise at Chilliwack, B. C. The erection of a $100,000 power plant will be begun at once.

BRIDGES.

GLOUCESTER, MASS.—W. L. Webber, Cy. Engr., has been instructed to prepare plans for the new Western Ave. bridge over the Annisquam.

WILLIMANTIC, CONN.—City will build a foot bridge across the Willimantic river. Cost, about $10,000.

ALBANY, N. Y.—Bids are asked by Chas. S. Boyd, Supt. Pub. Wks., until Oct. 14 for construction of a steel bridge and approaches over Erie canal at Willis Ave.

BUFFALO, N. Y.—The following bids were received Oct. 5 by Commissioner Public Works for constructing superstructure of bascule bridge, span 100 ft., and approach span of 106 ft.: Pittsburg (Pa.) Steel Construction Co., $117,700; King Bridge Co., Cleveland, O., $129,500; John P. Cowing, Cleveland, $132,500; Penn. Bridge Co., Beaver Falls, Pa., $134,900; Kellog Iron Works, Buffalo, N. Y., $135,500; Owego (N. Y.), Bridge Co., $143,900.

NEW YORK, N. Y.—Bids are asked by Aqueduct Commission, 280 Broadway, until Oct. 25 for building a private road bridge superstructure, 150 ft. span, across Croton River in Westchester County. Wm. H. Ten Eyck, Pres.

NEW YORK, N. Y.—Preliminary surveys are being made for the $10,000,000 bridge across Hell Gate. The structure is to be of steel and will connect with the New York, New Haven & Hartford Railroad at Port Morris. The span from the Astoria shore to Ward's Island will be 840 ft. The bridge altogether will be two miles long and 135 ft. above the river at the highest point. There will be a double track throughout. Besides the main span there will be two others, one over Little Hell Gate and one over the Kills. The bridge will be used for both freight and passenger traffic, doing away with the freight floats. The work of building will require three years, and it is planned to have it finished with the tunnels under the Hudson.

LANCASTER, PA.—Nelson & Buchanan were the lowest bidders, at $1,995, for construction of a steel bridge over mill creek, in East Lampeter township.

BALTIMORE, MD.—The County Commissioners of Baltimore and Anne Arundel counties will meet on Nov. 1 at Annapolis for the purpose of opening bids for the building of a bridge over Patapsco river, between the two counties, on the Hammonds Ferry road.

WASHINGTON, D. C.—Pennsylvania Railroad Co. has informed the District Commissioners that they are prepared to begin the construction of the railroad bridge over Water St. The bridge will be a steel structure, 80 ft. in length. H. R. Leonard, Philadelphia, Pa., is Engr. of Bridges. C. B. Hunt is Dist. Engr. of Highways.

NEW BERN, N. C.—Bids are asked by Craven County Commissioners until Oct. 15, 3 p. m., to build a bridge over Core Creek. Geo. B. Waters, Clk.

HATTIESBURG, MISS.—Board of Supervisors awarded to the Converse Bridge Co., Chattanooga, Tenn., the contract to construct a steel bridge over Leaf river.

CANTON, O.—Bids are asked until Oct. 14 by County Commissioners for furnishing material and reconstructing arch bridge on New Berlin Road, known as the Graham Hill Bridge; bids include construction of retaining wall. M. W. Oberlin, County Audr.

CINCINNATI, O.—Council has passed an ordinance authorizing the construction of the proposed bridge over canal at Marshall Ave. Cost, $6,200.

CINCINNATI, O.—Bids are asked by County Commissioners until Oct 29 for constructing a bridge and abutments on East Miami River road in Colerain township; also for construction of protection for west abutment of Miamitown bridge, in Whitewater township. Eugene L. Lewis, County Audr.

DAYTON, O.—The contract for masonry and concrete work on the new Herman Ave. bridge was awarded by Board Public Works to Fred W. Kroemer for $6,398.

ZANESVILLE, O.—Bids are asked by L. E. Brelsford, Audr., Muskingum County, until Oct. 27 for construction of superstructure of a highway bridge across Jonathan creek in Newton township. The bridge to consist of one span 120 ft. in length and two approach spans 25 ft. in length, and to have a 16 ft. roadway.

INDIANAPOLIS, IND.—Plans and specifications for a new concrete-steel bridge over Pleasant run at Washington St. have been adopted by Board Public Works. The present bridge is in a bad condition. The new bridge is to be 125 ft. long and have a total weight of 1,400,000 lbs. Cost, $12,000. A plan was also adopted by Board for a temporary pile bridge over White river at Moris St., which is to be used while the new permanent bridge is being built.

INDIANAPOLIS, IND.—Bids are asked by Marion County Commissioners until Oct. 18, 10 a. m., for constructing several bridges. Cyrus J. Clark, Audr.

RICHMOND, IND.—Bids are asked by Wayne County Commissioners until Nov. 7 for construction of county line bridge and Harris township bridge. Plans and specifications on file in office of Geo. W. Callaway, Chn.

SOUTH BEND, IND.—John W. Harnon, Audr., will receive bids until Oct. 20, for the sale of $120,000 bridge bonds.

WABASH, IND.—Bids are asked by W. S. Davis, Audr., Wabash County, until Oct. 20 for construction of a concrete bridge.

NEW BERRY, MICH.—A contract for construction of a steel bridge across Taquamenon river, near Newberry, has been awarded by Township Board to the Joliet Bridge & Iron Co. for $3,489.

PEORIA, ILL.—Jos. Cody & Son, City, have been awarded the contract for the proposed bridge across the Illinois at this place. Their bid was $200,000.

GREEN BAY, WIS.—The following bids were received by Council Committee on Streets and Bridgees Sept. 29, for the erection of a bridge across East River at Webster Ave.; two plans were figured on: Steel Structural Co., $14,799, $14,900; Chicago Bridge Co., $14,000, $12,000; Wisconsin Bridge & Iron Co., Milwaukee, Wis., $13,700, $11,500; Roemheld & Gallery, $14,000.

OSHKOSH, WIS.—The three lowest bids received Oct. 1 by Board Public Works for construction of substructure of bridge over Fox river were as follows: Adolph Green, Green Bay, Wis., $60,558; Jackson & Corbett, Chicago, Ill., $56,082; Roemhall & Gallery, Chicago, $55,435 (awarded contract). K. L. Lehman, 910 Opera House Bldg., Chicago, is Consult. Engr.

MILWAUKEE, WIS.—City Comptroller Pawinski has announced that there is $64,000 in the city treasury which can be used for no other purpose than for the erection of a new viaduct across Menominee valley at Sixth St. This is said to be sufficient to make a start with and by the time that has been spent the city can issue more bonds.

TIPTON, IA.—Bids are asked by Board of Supervisors until Nov. 15 for constructing and repairing county bridges for year 1905. W. A. Hamm, County Audr.

CROOKSTON, MINN.—Contract for the new Red Lake bridge on Robert St. has been awarded to Minneapolis Bridge & Iron Co., its bid of $10,000 being the lowest. The span is to be 200 ft. with a 20-ft. roadway and 6-ft. sidewalks on each side.

WESTMORELAND, KAN.—Bids are asked by County Surveyor until Oct. 24 for construction of two abutments. J. C. Walker, Clk., Flush, Kan.

KANSAS CITY, MO.—Council has appropriated $15,000 to build a steel viaduct over Belt Line tracks at Kansas Ave.

OKLAHOMA CITY, OKLA.—M. L. Cunningham, C. E., of the Territorial Engineering Co. writes us that bids will be received by City Clerk until Oct. 17 for construction of approaches to Walnut Ave. viaduct, to be built of reinforced concrete in accordance to plans and specifications by City Engineer. Est. cost, $13,800.

SANTA FE, N. MEX.—County Commissioners awarded to Walter Sharpe of Eldorado, Kan., the contract to build a stone bridge over Santa Fe river on College St., at $3,940.

EVERETT, WASH.—We are informed that the Burrell Construction Co. of Seattle, was awarded the contract for construction of a steel bridge over Snohomish river; for $34,000. W. I. Barkhuff is Cy. Engr.

KELSO, WASH.—The Kelso Bridge Co. has been organized with capital stock of $10,000, all subscribed. J. M. Fidler is Pres. Site for bridge has been selected. Structure will be suspension drawbridge 675 ft. long. Work will be started soon.

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EUREKA, CAL.—County Surveyor was directed by Board of Supervisors to prepare specifications for steel and also for wooden bridges over Elk river at the creamery and at Elk River Corners.

LIVERMORE, CAL.—Cotton Bros. have been awarded the contract by Board of Supervisors for construction of a bridge across Laguna creek in Pleasanton township. The structure is to be a steel span costing $7,...

LOS GATOS, CAL.—Resolution of intention was adopted by Board of Trustees to call a bond election for the purpose of providing funds to construct new bridge.

OROVILLE, CAL.—The center span of the Oroville bridge collapsed. It will cost the county $15,... to replace the span.

REDWOOD CITY, CAL.—Bids are asked by Board of Supervisors until Oct. 17 for a concrete arch bridge over San Mateo creek. Est. cost, $4,550.

COALVILLE, UTAH.—The County Commissioners have decided to put in two bridges over Weber River and repair the road between Peoa and Marion.

BUILDINGS.

SPRINGFIELD, MASS.—Council Committee has approved plans prepared by Geo. C. Gardner, 33 Lyman St., for proposed technical high school. It will be a ... story building, brick, with limestone trimmings, 207 x 146 ft. Estimated cost, $125,000. W. F. Gordy is Supt. Schools; Charles F. Warner is principal of school.

BINGHAMTON, N. Y.—Binghamton Society for Prevention and Care of Tuberculosis will erect a sanitarium, it is stated.

BROOKLYN, N. Y.—The Pratt Institute has arranged to build an annex to Ryerson St. building. It will cost about $100,000. Frederick B. Pratt may be addressed.

BUFFALO, N. Y.—Larkin Soap Co. will erect a 7-story building at Carroll and Larkin Sts. Cost, $300,000.

LONG ISLAND CITY (L. I.), N. Y.—Bids were received as follows on Oct. 4 by Joseph Cassidy, Pres. Boro. Queens, for repairing Queens County court house and jail: David Henry Building Co., of Newark, N. J., $63,887; Thos. A. Brown, $75,000; Ralph Gerstle, $82,954; Chas. Wille, $81,183; Chas. H. Peckworth, $84,294, and Chas. Mead & Co., $104,300. Appropriation is $50,000.

NEW YORK, N. Y.—Andrew J. Cobe, Pres. of Corporation Liquidating Co., 939 Park Row Bldg., informed us that Kirby, Petit & Green, Archs., 21 West 34th St., are busily engaged in preparation of plans for the many buildings that will constitute the proposed permanent amusement park "Wonderworld." Preliminary work of clearing and laying out the tract of 50 or more acres at Broadway, 218th St. and the Ship Canal is now in progress. Total cost, as now planned, will be about $3,000,000. The general structural work of buildings will be of steel and stone, but staff also will be used. Contracts for construction of buildings, bridges, tracks, towers, mechanical effects, etc., will be awarded as soon as plans and specifications are prepared. Nathan F. Barrett, Rochelle Park, New Rochelle, has charge of all landscape effects. For further details Mr. Cobe may be addressed.

Radcliffe & Kelley, Archs., 3 West 29th St., will soon let contract for a 10-story building, 112 x 98 and 85 ft., to be erected at 236-246 West 37th St., for McCalls' Magazine & Patterns Co., of 113 West 31st St. Cost, $225,000. Power plant will be installed, also presses, and other machinery that will be operated by electricity.

Carmelite Fathers will erect a 4-story brick school at 318-322 East 29th St. Cost, $60,000. Thomas H. Poole & Co., 13 West 30th St., are Archs.

Bids are asked until Oct. 29 by Mordecai T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C., for constructing an addition to commandant's quarters, New York navy yard.

NEW YORK, N. Y.—Bids are asked until Oct. 24 by C. B. J. Snyder, Supt. School Bldgs., for sanitary work, also machinery and fitting for several public schools in Boroughs of Bronx and Queens.

OSSINING, N. Y.—Plans have been approved for proposed $50,000 jail to be erected here. Charles K. Baker is Ch. Clk., office of State Supt. Prisons, at Albany.

POUGHKEEPSIE, N. Y.—Bids will be received until Oct. 31 by Percival M. Loyd, 33 Market St., for erecting Y. M. C. A. building; four stories high, 56 x 100 ft., brick with limestone trimming, steel frame and concrete floors. Cost, $40,000.

ROCHESTER, N. Y.—Plans for new John Fahy building to be erected on Main St. have been filed. It will be of brick, fireproof construction, seven stories high, 67 x 160 ft. Estimated cost, $200,000. Gordon & Madden are the Archs.

SYRACUSE, N. Y.—Central New York Telephone & Telegraph Co. will erect a $200,000 building at 321-323 Montgomery St.

MONTCLAIR, N. J.—Bids will be asked soon for construction of new $70,000 school. Plans have been approved.

ELKENS, PA.—Brockie & Hastings, Archs., 328 Chestnut St., Philadelphia, are reported preparing plans for high school building for this place. Cost, $60,000.

McKEESPORT, PA.—Harry S. Esten, Arch., Publication Bldg., Pittsburg, will receive bids about Oct. 15 for the Masonic temple to be erected at McKeesport. Brick and stone, fireproof, iron work, steam heat, gas and electric light, etc. Cost, $80,000.

McKEESPORT, PA.—The architects commissioned to design four 10-room school houses are E. J. Carlisle & Co., Westinghouse Bldg., Pittsburg; Robinson & Winkler, Park Bldg., Pittsburg; Thos. J. Herron, Pittsburg, and H. J. Lohman, McKeesport. Plans will be drawn at once. Total cost, $240,000.

PHILADELPHIA, PA.—Willis G. Hale is preparing plans for a 6-story apartment house to be erected at Locust and 38th Sts., West Philadelphia. It will be of fireproof construction with exterior walls of brick, with terra cotta and granite trimmings. Cost, $300,000, exclusive of site.

The lowest bid received Oct. 4 by the Property Committee Board of Education for erecting three schools was submitted by D. Peoples, of Philadelphia, at $231,109, exclusive of paving the playgrounds. Contract was not awarded, it is reported, as this amount is about $10,000 in excess of appropriation.

PITTSBURG, PA.—Mrs. Harriet L. Rook will build at 1331-1335 Fifth Ave., near Logan St. Rutan & Russell, Archs., are taking estimates on proposed building. Steel frame, brick and terra cotta construction, fireproof, 10 stories high in front and in the rear will be four stories high.

WILKESBARRE, PA.—Owen McGlynn, Simon Long Bldg., has plans for a parochial school for St. Mary's Catholic parish, to be erected on South Washington St. Three stories and basement, 65 x 150 ft., stone, press brick and terra cotta, slate roof. Cost, $45,000.

SCRANTON, PA.—J. A. Dempwolf, Arch., York, Pa., has been commissioned to prepare plans for remodeling and for additions to Lackawanna County court house. Cost between $400,000 and $500,000. An additional appropriation of $120,000 may be secured for new court room. This is not provided for in the above-mentioned plans.

FREDERICK, MD.—Woodruff-McLaughlin Co., Baltimore, has been commissioned, it is reported, by Patrick Long, owner of City Hotel, to prepare plans for a summer hotel to be erected at Braddock Heights. Probably three stories, 50 × 200 ft., stone, concrete, brick and frame, steam heat, electric light, baths, etc. Cost, $100,000.

WASHINGTON, D. C.—Bids were received on Oct. 1 by Bernard R. Green, Supt. of Construction for National Museum, for furnishing and delivering all cut granite required for front and court walls (exclusive of south pavilion) of the new National Museum building, as follows: Item 1, basement from A to B; 2, basement from B to C; 3, basement from C to D; 4, first and second stories, front; 5, granite stock for south pavilion; 6, attic story; 7, court walls): Thompson-Starrett Co., New York, N. Y., Item 1, $48,312; 2, $112,979; 3, $48,312; 4, $362,449; 5, $2½ cts. per cu. ft.; 6, $160,905; 7, $148,256. New England Granite Co., Westerly, R. I., Item 4, $344,135; 5, 75 cts. per cu. ft. Pidgeon Hill Granite Co., Rockport, Mass., Items 1 and 3, $37,300 each. North Carolina Granite Corporation, Philadelphia, Pa., Item 1, $45,131; 2, $120,352; 3, $45,131; 4, $415,395; 5, 40 cts. per cu. ft.; 6, $107,645; 7, $127,995. John Pierce, New York City, for all classes complete except Item 5, $689,700; Item 5, $1 per cu. ft. Milford Granite Co., Milford, Mass., Item 1, $32,900; 2, $84,750; 3, $32,900; 4, $318,560; 5, 75 cts. per cu. ft.; 6, $84,950; 7, $116,240. Frank F. Graham, Baltimore, Md., Item 1, $39,900; 2, $97,000; 3, $40,000; 7, $110,000. Maryland Granite Co., Baltimore, Md., Item 1, $41,006; 2, $63,708; 3, $41,006; 4, $358,363; 5, 65 cts. per cu. ft.; 6, $117,797; 7, $129,410.

MORGANTOWN, W. VA.—Leon H. Lempert, Arch., Rochester, N. Y., will prepare plans for the Main Street Building Co., recently incorporated with an authorized capital of $100,000, for a 6-story business block and theater. Cost, $80,000. C. W. Houston will supervise the construction. Isaac Van Hoorbis is Pres. of the company; John G. Lantz, Vice-Pres.; R. L. Morris, Secy.; George M. Cobun, Treas. H. L. Swisher is Gen. Mgr.

ATHENS, GA.—Bids are asked by James Knox Taylor, Supervis. Arch., Treas. Dept., Washington, D. C., until Nov. 3 for the installation of a conduit and electric mining system for the U. S. Post Office and Court House. (Advertised, Engineering News.)

DOTHAN, ALA.—Bids are asked until Nov. 7 by George Leslie, Probate Judge, for erection of courthouse. Andrew J. Bryan, Arch., 708 Hennen Building, New Orleans, La.

JACKSON, MISS.—Bids are asked until Oct. 22 by Board Commissioners for construction of building Deaf and Dumb Institution. J. R. Dobyns is Secy. Bd. Comrs. All bids received Sept. 26 were rejected. Appropriation, $75,000.

NEW ORLEANS, LA.—The following bids were received on Oct. 8 by Bureau of Yards and Docks, Navy Dept., for storehouse, at Naval Station: (Item 1) J. C. Robinson, 113 Adams St., Chicago, Ill., $104,167; Congress Construction Co., 1614 Masonic Temple, Chicago, $112,546; W. O. & C. G. Burton, 1016 Hibernia Bank Building, New Orleans, La., $106,000; Broderick & Wind Eng. & Constrn. Co., 719 Bank of Commerce, St. Louis, Mo., $103,000; Penn Bridge Co., 312 Bond Building, Washington, D. C., $97,789.

MEMPHIS, TENN.—County Court will recommend to Legislature at January meeting that Shelby County be authorized to issue $1,000,000 of bonds for the construction of courthouse. N. C. Perkins may be addressed.

CINCINNATI, O.—Andrew Dall & Son, of Cleveland, have the contract for building the Havlin Hotel at Opera Pl. and Vine St. Building will be 60 × 100, ten stories high. Cost, $220,000. The contract is for the foundation and superstructure, and includes structural steel, ornamental iron and fireproofing.

COLUMBUS, O.—Bids were received Oct. 1 by Board of Agriculture for two machinery buildings and one poultry building at the state fair grounds. Low bids were: C. P. Wolf, City, poultry building $9,500; C. G. Blase, Columbus, machinery hall $18,369, one poultry and one machinery building $29,614, two machinery buildings $35,221, all buildings $46,975.

The National Concrete Fireproofing Co. has the contract for fireproofing 12-story block for the Columbus Savings and Trust Co. The work will amount to about $75,000.

DAYTON, O.—Bids are asked by Wm. G. Haeussler, Clk., Bd. Education, until 12 o'clock Oct. 20, for the erection of a brick school building, to contain 14 class rooms and an auditorium, etc., on Haynes St. A mechanical steam heating system will be used. Plans, etc., are on file at office of Peters, Burns & Pretzinger, Archs., 26 Kuhns Bldg.; also Harry C. Bard, Pres.

INDIANAPOLIS, IND.—Grand Lodge, Knights of Pythias, has voted to erect a building at Massachusetts Ave. and Pennsylvania St. Cost will be about $500,000. Geo. W. Powell, of Indianapolis, is Grand Chancellor.

ADRIAN, MICH.—Bids are asked until Nov. 14 for construction complete of post office. James Knox Taylor, Sunpervising Arch., Treasury Dept., Washington, D. C.

AURORA, ILL.—Board of Education will erect a brick and stone school building at West Aurora, to cost $40,000. Architect has not yet been selected. Dr. C. E. Caldwell is Pres. Bd.

CHICAGO, ILL.—Permit has been granted to Steiner, Rosenthal, Eckstein & Noyes, for a 16-story building to be erected at 138-144 State St. Cost will be $600,000. Holabird & Roche are Archs.

A. O. Van Herbulis, Arch., 416 F St., N. W., Washington, D. C., has drawn plans for a church to be erected at Noble and Chapin Sts., for Holy Trinity church. Rev. Father Sztuezko is pastor. One story and basement, brick and stone. Cost, $150,000.

Corn Exchange National Bank, 217 La Salle St., has secured a 99-year lease on property at La Salle and Adams Sts, it is stated, and will improve it with a 16-story office and bank building, 75 × 128 ft., to cost $750,000. Architect is not selected. Ernest A. Hamill is Pres.

Bids are asked until 12 o'clock, Oct. 14, for the following school work: Cyrus H. McCormick school, Sawyer Ave. and West 27th St.: Masonry, cut stone, sheet metal and tile roofing, composition roofing, structural iron, iron stairs, wire guards, carpentry, hardware, painting and finishing, glass and glazing, fireproofing, lathing and plastering, concrete floors, asphalt floors, etc., tile floors, telephones and bells, window shades, steam heat, heat regulation, ventilation, plumbing and gas fitting, sewerage, electrical work. Avondale school: Cinder filling. R. B. Williamson, act.-Archt.; T. J. Waters, Ch. Engr., 714 Tribune Bldg.

Work has been begun on White City, the amusement park to be located at 63d St. and South Park Ave. The White City Construction Co., owners and operators of White City, will erect 24 buildings, varying in size from 30 × 75 ft. to 160 × 225 ft. These buildings will be of semi-fireproof construction. In the center of the grounds a steel tower 250 ft. high will be erected. Particulars of this project were given in issue of Sept. 1.

ELGIN, ILL.—School Board has accepted plans submitted by D. E. Pastle, Arch., 204 Dearborn St., Chicago, for high school addition. It will cost $55,000. Bids will be asked at once. Previously noted.

EVANSTON, ILL.—C. D. Armstrong, 6735 Lafayette Ave., Chicago, has been awarded contract by A. L. Colcord, Arch., for the masonry work for 20 residences to be erected at Evanston, Ill., for C. F. Metcalf. Buildings will be two stories, 25 × 70 ft., built of brick and stone. Cost, $130,000. Noted last week.

PEKIN, ILL.—Lowest bidders for construction of post office here are reported to have been V. Jobst & Sons, Peoria, Ill., at $56,900 and M. Yeager & Sons, Danville, Ill., at $56,909. Seven bidders.

MADISON, WIS.—T. C. McCarthy, Madison, was awarded contract to erect the University Christian Association building. Some changes in plans are to be made that will make the approximate cost $58,000.

MARINETTE, WIS.—Contract for constructing new county asylum was awarded to George Gergerson, of Green Bay, at $57,330.

DULUTH, MINN.—Bids are asked until Oct. 14, 5 p. m., for construction of new manual training building. Palmer & Hunt, 307 Lonsdale Bldg., are the Archs. J. J. Le Tourneau is Treas., and Charles A. Bronson, Clk. Bd. Education.

MINNEAPOLIS, MINN.—School Board, F. G. McMillan, Director, will ask Council for $200,000 appropriation for new buildings.

KANSAS CITY, MO.—Plans prepared by F. C. Gunn, Shukert Bldg., and Root & Siemans, Postal Tel. Bldg., associated Archs., for new city hospital to be erected at 24th and Locust Sts., have been approved by Council. It will consist of four buildings. Estimated cost, including equipment, etc., about $230,000. Contracts for grading and foundations will be let soon. Previously noted.

George M. Siemans, of the firm of Root & Siemans, Archs., has prepared plans for a labor temple to be erected for the Labor Temple Association. Building will be four stories high, 80 × 120 ft., of brick. Cost, $60,000.

MUSKOGEE, IND. T.—Muskogee Hotel Co. has been incorporated to erect a $75,000 hotel. C. N. Haskell is Pres.; O. T. Letcher, vice-Pres.; F. R. Letcher, Secy., and Ira L. Reeves, Treas.

SEATTLE, WASH.—Permit has been granted to the Northwestern Improvement Co., for a 6-story brick building to cost $30,000. Kingsley & Anderson are Archs.

BERKELEY, CAL.—$108,000 of the estate of the late Chas. F. Doe, of San Francisco has been received by the University of California Board of Regents. Plans for the college library building for which the bequest was made will be prepared by John Galen Howard, University, Arch.

LOS ANGELES, CAL.—The San Diego Opera House Co. is planning to erect a building at Fourth and C Sts., at a cost of $125,000, it is reported.

WATER SUPPLY AND IRRIGATION.

LEBANON, N. H.—Water supply of this town is stated to have been condemned for drinking purposes by State Board of Health, unless first boiled.

WILMINGTON, VT.—Town has voted to build waterworks to cost about $20,000.

WALPOLE, MASS.—Town votes to lay water mains through Gill St. at est. cost of about $4,000.

EAST GREENWICH, R. I.—Referring to water supply system of Fire District, we are informed that the work now being done is merely of a preliminary nature for a municipal plant in case no satisfactory arrangement can be made with the present private company for a renewal of its contract, which expires in 1906.

PROVIDENCE, R. I.—We are informed that the committee from Town of North Providence has requested an extension of the mains of this city in that place, and this may be done under certain conditions. H. E. Wood is Secy. Dept. Pub. Wks.

NEW HAVEN, CONN.—Sperry & Treat who were awarded contract for boiler house, 100,000 gallon reservoir, pump house, repair shop, etc., for Fairhaven & Westville Electric Ry., have sublet contract for carpenter work to C. W. Murdock.

SOUTHINGTON, CONN.—We are informed that Southington Water Co., T. H. McKenzie, Secy., will extend its mains to Milldale, next spring at a cost of about $8,500.

ALEXANDRIA BAY, N. Y.—Power house of local waterworks reported destroyed by fire with $12,000 loss.

BUFFALO, N. Y.—Aldermanic Fire Committee has recommended that F. G. Ward, Comr. Pub. Wks., build the Pearl St. pipe line, at a cost not to exceed $22,000; bids for this work were taken some time ago, but were rejected.

CENTRAL VALLEY, N. Y.—Bids are asked by the Orange County Road Const. Co., C. C. Tegethoff, Treas., for drilling a well from 300 to 500 ft. deep; mostly solid rock. Address C. T. Ford, (Advertised, Engineering News.)

GLENS FALLS, N. Y.—It is stated that village will have to rebuild portion of dam of Keenan Reservoir.

NEW YORK, N. Y.—Bids are asked by Commissioner Water Supply, Gas and Electricity until 2 p. m. Oct. 19 for furnishing, delivering and laying water mains in various streets in Boroughs of Manhattan and the Bronx. John T. Oakley, Comr.

UNION SPRINGS, N. Y.—Preliminary estimate has been made setting cost of works for village at $36,000. Estimate calls for pumping station at the lake, about five miles of mains and a 300,000 gallon reservoir. Oscar J. Spencer is on Com.

ASBURY PARK, N. J.—Council is reported to be calling for bids for 200 HP. horizontal tubular boiler for water-works station. John L. Coffin is Supt. W.-W.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

NEWARK, N. J.—White Diamond Water Co. has filed articles of incorporation; capital is $50,000 and Francis D. Boland, Newark, is interested.

SUMMIT, N. J.—Council has ordered 35 hydrants located in various parts of the city.

LEBANON, PA.—City will vote at November election on $16,000 bond issue for constructing additional pipe line from city to South Mountain water supply dams.

McKEESPORT, PA.—Water Commissioners will, it is stated, ask $5,000 appropriation for sinking additional wells near Youghiogheny River.

NEW CASTLE, DEL.—James M. Seabury, Philadelphia, Pa., representing Delaware Water Improvement Co., has made proposition to council to supply city with water and electric light.

BERLIN, MD.—Water-works discussed.

WASHINGTON, D. C.—Bids are asked by Bureau Yards and Docks until Oct. 29 for constructing pumping plant, water tank, etc., for artesian well system at League Island, Pa., Navy Yard. Est. cost of system is $12,000. M. T. Endicott, Ch. Bureau. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

EMPORIA, VA.—Contract for constructing water-works is stated to have been let to E. L. Mathews, West Point, Va., for $28,854. Bids were opened Sept. 29.

CLINTON, S. C.—Town will issue $25,000 in bonds to install water-works and electric light system. J. A. Bailey is Comr. in charge.

COLUMBIA, S. C.—Board Engineers on Water Supply have submitted their report to the City Council, recommending that the supply of water be obtained from the Congaree River and purified by filtration. The Board consisted of Geo. G. Earle, New Orleans, La.; Wm. P. Mason, Troy, N. Y.; and Allen Hazen, 220 Broadway, New York. Bonds probably will be issued and the work begun as soon as possible. J. W. Babcock, A. C. Haskell, Chas. Narey, Wm. Barnwell and W. B. Burney are the Water Comrs.

COLUMBUS, GA.—J. L. Ludlow, Consult. Engr., Winston, N. C., has reported on new water-works system for this city. Cost of supply from Blue Springs is set at $549,735. L. H. Chappell is Mayor.

COVINGTON, GA.—Water-works agitated.

MONROE, GA.—Water-works and electric lights considered.

TAMPA, FLA.—Council refused to pass ordinance providing for $350,000 bond issue for purchase of the waterworks.

PRINCETON, KY.—City may make $40,000 bond issue with which to install water-works.

AKRON, O.—Committee has reported in favor of municipal water-works and matter of issuing $800,000 of bonds for that purpose may be voted on Nov. 8. Detailed estimate of cost of works is as follows: Supply works, 20,000,000 gallons capacity, $20,000; filter works, 10,000,000 gallons capacity, $100,000; buildings, 20,000,000 gallons capacity, $25,000; machinery, 2,000,000 to 15,000,000 gallons capacity, $100,000; boilers 800-HP., $12,000; force mains, five miles, 30-in., $18,000; standpipes (2), 30 ft. by 100 ft., $35,000; distribution, 80 miles, $400,000; real estate, $15,000; total, $887,000.

CINCINNATI, O.—McLaughlin & Gilmore, Archs., have been making plans for new city water-works pumping station to be erected on Price Hill at a cost of about $25,000.

CINCINNATI, O.—Bids were received by Board Water-Works Commissioners Sept. 30 for laying water mains; contracts let as follows: Woolper, Clifton Ave., McAlpin and Lafayette Aves., F. H. Kirchner Construction Co., $9,819; Hackberry and Madison Sts., Kirchner Co., $6,676; Burnet Ave., Keeling & Ridge, Pittsburg, Pa., $17,039; Forest Ave., Guy M. Gest, $11,531.

CLEVELAND, O.—Ordinance has been before Council for providing water supply for village of Cleveland Heigths. City agrees to erect standpipe not less than 100 ft. high. Prof. E. W. Bemis is Supt. W.-W.

COSHOCTON, O.—Contract for building 20-in. suction line for water-works pumping station is reported let to M. Rabbit, Toledo, O., for about $8,000.

FRANKLIN, O.—City will probably issue $10,000 of bonds for water-works.

MAUMEE, O.—W. Richardson, Clk., writes us that no bids were received at this place Oct. 10 for franchise for water-works.

MT. HEALTHY, O.—Village voted Oct. 8 on issuing $28,000 of bonds for building water-works, to consist of reservoir, pumping plant and standpipe.

NEWARK, O.—Phil B. Smythe, Cv. Solicitor, is stated to have begun suit to compel the Newark Water-Works Co. to make extensions of 15,000 ft. ordered by the Board Public Service.

YOUNGSTOWN, O.—Bids are asked by Board Public Service until 12 m. Oct. 14, for construction of boiler house at filtration plant. G. T. Prosser, Clk.

SPENCER, IND.—Water-works agitated.

PERRY, MICH.—Village voted Oct. 5 on bonding for $15,000 for water-works.

EUREKA, ILL.—New water-works agitated.

QUINCY, ILL.—Local water-works have been purchased by Citizens Water-Works Co., which will hold them in trust for the city until it shall have sufficient funds to take over the plant. H. C. Sprick, Treas. of the company writes that the plant is fully equipped and that they are not in need of anything at present.

DE FOREST, WIS.—Town voted Oct. 3 on raising funds for water-works.

LAKE NEBAGAMON, WIS.—McKenzie & Arris, Superior, Wis., were awarded contract Oct. 1 for building water-works plant. Work will cost about $2,832.

MENASHA, WIS.—City voted Oct. 3 to issue $75,000 of bonds for building water-works. It is stated that construction work will not be started until next spring. S. S. Little is Cy. Clk.

WEST ALLIS, WIS.—Town votes Oct. 15 on bond issue for installing water-works.

COON RAPIDS, IA.—Town voted Oct. 11 on $5,000 bond issue, $3,000 of which is for water-works improvements.

MINNEAPOLIS, MINN.—Resolution was to come before council to submit to popular vote at November election question of spending $1,000,000 for installation of sand filtration plant in accordance with plans of pure water commission, which submitted its report some time ago.

SOUTH ST. PAUL, MINN.—Bids are asked until 7 p. m. Oct. 17 for laying water mains in various streets. Chas. W. Clarke, Cy. Recdr.

ABILENE, KAN.—We are informed that negotiations have just been begun for purchase of plant of Abilene Water Co. by city. S. R. Cowan is Mayor.

EMPORIA, KAN.—Bids are asked by G. O. Mathewson, Cy. Clk., until 5 p. m. Oct. 14 for furnishing two tubular boilers 60-in. diameter and 16 ft. long, for use at water-works pumping station.

PAOLA, KAN.—Citizens voted Oct. 4 not to purchase local water-works.

GREELEY, NEB.—Bids are reported asked by G. W. Scott, Village Recdr., Greeley Center, until Oct. 21 for furnishing 1,760 ft. of 6-in. 33-lb. c.-i. water pipe, 4,698 ft. 4-in. 22-lb. c. i. water pipe and about 4,500 lbs. of c. i. water pipe specials; one 6-in. gate valve with valve box; four 4-in. gate valves with valve boxes; 14 4 × 5 × 2½ double discharge fire hydrants; about 4,000 lbs. of pig lead, about 300 lbs. of jute; one 40,000-gal. steel tank, resting upon an 80 ft. steel tower, the tank and tower to be erected complete ready for water service; one 25 HP. gasoline engine; one 8½ × 8 triplex pump; two 4-in. tubular wells with Cook strainers, cylinders and stuffing boxes; also for digging trench and laying above pipe; and for superintending the work.

HOWELL, NEB.—Town will vote soon, it is said, on issue of $8,000 of bonds for water-works.

OMAHA, NEB.—Bids are asked until Oct. 22 for the construction of settling basins and slow sand filters for the Creston Water Co., Creston, Ia. Andrew Rosewater, Cy. Engr. (Advertised, Engineering News.)

TOBIAS, NEB.—Water-works agitated.

WISNER, NEB.—We are informed that proposed improvement of municipal water-works will require about 2,200 ft. 4-in., 300 ft. 8-in. and 200 ft. 6-in. mains, and 16 ft. × 65 ft. high standpipe.

DEADWOOD, S. DAK.—City votes Oct. 22 on issuing $130,000 of bonds for providing public water system. Supply is to be from Elk Creek, 12 miles from city, and system will be gravity one. 2,000,000 gallon reservoir will be constructed. Plans and specifications are stated to have been secured for the work.

LARAMIE, WYO.—City voted Sept. 27 to issue $12,000 of bonds for building 500,000-gallon reservoir at City Springs.

KANSAS CITY, MO.—Bids are asked by the Board of Public Works until Oct. 29 for the construction, delivery and erection of a centrifugal pumping engine at the Quindaro Pumping Station, same to have capacity of 25,000,000 U. S. gallons in 24 hours, against a combined lift of 47 ft. with a steam pressure of 150 lbs. per square inch. Bids are also asked for the construction and erection of two water tube boilers each 300 HP. Everett Elliott, Secy. (Advertised, Engineering News.)

MARSHALL, MO.—A. R. James, Cy. Clk., writes that contract for constructing water-works system, bids for which were received Oct. 4, was let to G. Jaeger, Rich Hill, Mo., for $19,840.

MUSKOGEE, IND. T.—We are informed that bids probably will be asked about Nov. 1 for proposed extensions of municipal water and sewer systems. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Des. Engrs.

CRIPPLE CREEK, COLO.—Blue Valley Canal Co. capitalized at $150,000 has been incorporated. A 30-mile canal to divert waters of Black Creek and Cateract Creek is said to be planned. A. A. Houck and Chas. J. Flebbe are interested.

MONTROSE, COLO.—Following bids were received Oct. 5 by U. S. Reclamation Service for constructing Gunnison Tunnel and approaches, in connection with the Uncompahgre River Irrigation Project; itemized bids are given under Contract Prices: Lusk & McClurg, $1,422,050; Utah Construction Co., Ogden, Utah, $1,692,800; Taylor Moore Construction Co., Hillsboro, Tex., $1,008,500; Ferguson Construction Co., $2,016,250; W. C. Bradbury, Denver, Colo., $1,446,740; Lantry Sharp Construction Co., $1,618,870; Orman & Crook, Pueblo, Colo., $1,818,300; J. H. Flick, $2,243,480; John McKeskney, $2,401,090; San Francisco Construction Co., $1,708,000.

WALSENBERG, COLO.—Town Council on Sept. 28 awarded contract for municipal water system to Holme & Allen Pipe & Construction Co., Denver, Colo., and T. J. Murphy and T. M. Murphy, Trinidad, Colo. The total amount of the contract for the completed system will be $66,427.

KELSO, WASH.—Kelso Water & Light Co. has been incorporated with $25,000 capital, and has secured franchise to furnish water for this place. Concrete reservoir of 200,000 gallons capacity will be built and four or five miles of mains laid. Work is reported to have been already started. John L. Harris, Kelso, is Mgr.

NORTH BEND, WASH.—It is stated that pipe line will be laid from Spring Lake under Coos Bay to a reservoir on a hill back of this town, a distance of eight or ten miles. Mayor L. J. Simpson is interested.

SEATTLE, WASH.—Puget Sound Bridge & Dredging Co., at $2,053, were low bidders, Oct. 1, for laying water mains in 21st Ave. F. McLellan & Co., at $8,360, were low bidders for mains in 10th Ave. and E. Union St.

TACOMA, WASH.—Mount Tacoma Water Supply Co., has made proposition to Council to install gravity water plant capable of furnishing 20,000,000 gallons of water, at a cost of $790,000. William Colegrove, Orting, Wash., is Pres.; J. W. Brown, Tacoma, is also interested.

ADAMS, ORE.—A reservoir site has been selected and bonds prepared for sale for a system of water-works for this place.

EUGENE, ORE.—Local reports state that the Willamette Valley Electric R. R. Co., W. J. Gilseym, Gen. Mgr., has filed notice of appropriation of water on the McKenzie River, and will construct a canal from Martin's Rapids to the mouth of Gate Creek, a distance of nearly three miles, at an expenditure of probably $75,000.

GLENDALE, ORE.—Mayor D. N. Fish writes us that franchise for water-works and electric lights has been granted to A. R. Black. Supply will be from Section Creek, 1½ miles distant.

ROSEBURG, ORE.—Legislature probably will be petitioned to amend charter of this city so that it can own and operate water and light plants.

BISHOP, CAL.—Bonds were voted at election Sept. 6 for the following purposes: Water-works, $29,000; sewers, $12,500; drainage, $2,500. Bids for these will be opened Dec. 1. Bids for the work will be opened Jan. 10. Lippincott & Parker, Braly Bldg., Los Angeles, Cal., are Engrs.

SAN DIEGO, CAL.—Special Council Committee is considering matter of installing second independent pumping plant on the San Diego River.

VENTURA, CAL.—C. E. Moore, Consult. Engr., Santa Clara, Cal., is to make estimates for municipal water and lighting system for this city.

TROY, IDAHO.—R. L. Christil writes that bond issue for installing water-works has not been sold as yet.

GRANGEVILLE, IDAHO.—Evan Evans, Frank McGrano and A. W. Talkington have purchased water-bearing lands and will, it is stated, bring a supply to this city.

TEMPE, ARIZ.—Directors Tempe Pumping Co., are reported to be considering enlarging nearly completed plant from capacity of 1,000 inches to 3,000 inches.

NORTH VANCOUVER, B. C.—J. C. Williams, North Vancouver, is stated to have been awarded contract for laying about 5¼ miles of 10 and 12-in. wired wooden pipe for this city.

INDIAN HEAD, N. W. T.—Improvement of water-works is under consideration. Cost of supply from Squirrel Hills Springs is estimated at $87,000, which includes cost of proposed new electric light plant.

SEWERAGE.

PORTLAND, ME.—John J. Mahoney was awarded contract for North Side intercepting sewer, at $7,442. Four bids were received.

MEDFORD, MASS.—W. B. Bryne was awarded contract for Main St. sewer at $1,407.

QUINCY, MASS.—At last meeting of city council an order appropriating $12,000 for extending main sewer and building lateral sewers was passed to a second reading.

WATERBURY, CONN.—Board of Aldermen have question of appropriating $10,000 for repairing and building sewer in North and South Willow Streets under consideration.

BROOKLYN, N. Y.—Bids are asked until Oct. 19 for furnishing all labor and materials required for removing silt or sand deposits or such refuse from the brick sewers of the borough. Engineer's estimate of the quantities is 30,000 cu. yds. silt deposit. Martin W. Littleton, Boro. Pres.

GLENS FALLS, N. Y.—A 10-in. pipe sewer will be laid in Glen St. hill.

NEW YORK, N. Y.—Italian-American Engineering Co., 19 West 24th St., is reported to have contract for the construction of sewers in Morris Ave. from 164th to 170th St., and in Grand Boulevard and Concourse from 189th St. to Kingsbridge Road, at $54,052 and at $17,300, respectively.

ASBURY PARK, N. J.—It is reported that the New Jersey State Sewerage Commission has been in conference with the Mayor and Council of Asbury Park, with a view to establishing a new system of sewerage for the coast towns, that will do away with the proposed ocean outlet nuisance. Col, C. W. Fuller, of Bayonne; J. H. Capstick, of Boonton; J. E. Fleming, of Newark, and Secretary McLean, of Jersey City, are interested in project.

CALDWELL, N. J.—Joint sewage committee has recommended to Borough Council that $40,000 of bonds be issued for construction of a sewage disposal plant. R. C. Betchel and J. H. Harrison are on committee.

IRVINGTON, N. J.—Bids are asked until Oct. 18 by M. Stockman, Town Clk., for extension of sewer system. Approximate quantities, 37,216 ft. 8 and 10-in. pipe sewer, 2,645 8 and 10-in. branches, 108 manholes, and 29 flush tanks. Alex. Potter, Engr., 143 Liberty St., New York.

PASSAIC, N. J.—Bids are asked until Oct. 14, 8 p. m., for constructing several sewers. Samuel Mulloy is member of Sewer Com. Work must be completed by Nov. 15.

VAILSBURG, N. J.—Common Council has passed resolution to bond the borough for $10,000 with which to extend sewer system. Thomas Connelly is Mayor. E. L. Price, Boro. Attorney, may be addressed for further details.

HARRISBURG, PA.—Berhaus & Moffit were lowest bidders at $4,278, for constructing Seneca St. sewer. J. Austin Brandt, Highway Comr.

INDIANA, PA.—R. M. Mullen, Boro. Engr., informs us that the following bids were received on Sept. 26 for 11,000 ft. of 6, 8 and 10-in. pipe sewers: John Hermann, Latrobe, $16,063 (awarded contract); Bowman Bros., Philadelphia, $16,534; J. A. McIlwain, New Kensington, $16,656, and D. J. Madigan & Co., Swissvale, $19,448.

PHILADELPHIA, PA.—Bids are asked until 12 o'clock noon, Oct. 14, for constructing main sewers and branch sewers. Peter E. Costello, Dir. Dept. Pub. Wks.

WASHINGTON, D. C. (Takoma Park, Post Office Station).—Bids are reported asked until Oct. 19 by Benj. G. Davis, Clk., for building outfall sewer and septic tank, requiring about 7,500 ft. 10-in. sewer, two inverted syphons, one steam crossing, manholes and septic tank, with necessary fittings complete.

WASHINGTON, D. C.—D. E. McComb, Supt. Sewers, has recommended to Col. John Biddle that appropriations for sewer construction be made as follows: For extension of East Side intercepting sewer to Brookland, $342,000; a trunk sewer along west side of Rock Creek, between P St. and Military Road, $298,100. Among other sewers recommended are one in the valley of Broad Branch, between Rock Creek and Soapstone Branch, and in the valley of Soapstone Branch, to serve a portion of Armesleigh Park and Reno, $28,800; one in the valley of Falls Branch to serve the American University Park and the American University Heights, $100,550; one in the proposed extension of California Ave., between Rock Creek and High St., and parallel with and east of High St., between California Ave. and the Naval Observatory, to serve both sides of High St., from U St. northward to the observatory, $70,000. Mr. McComb recommends that the Arizona Ave. sewer system be completed as rapidly as possible, and asks for $50,000 for its extension during coming year. It will cost $293,000. There has been appropriated and expended on it $105,000, and $188,000 is required to complete it. For a sewer to serve Ivy City, and the northerly portion of the subdivision of Trinidad, $50,000 is asked. B St. and New Jersey Ave. trunk sewer, $140,000; outfall sewer, siphon, and outlet, $310,000; lower section of Rock Creek and B St., intercepting sewer, $29,000; Water and L Sts. intercepting sewer, $148,000; 4½ St. intercepting sewer, $80,000; outfall to old B St. sewer, $25,000. For dykes, not yet appropriated for, $73,000. For maintaining present system of sewers: for cleaning and repairing sewers and basins, $58,000; for main and pipe sewers and receiving basins, $50,000; for constructing suburban service sewers, $50,000.

EMPORIA, VA.—E. Mathis, of West Point, Va., was the lowest bidder at about $27,000 for construction of water-works and sewer system. Charles S. York, 1526 East Biddle St., Balmitore, Md., is Engr.

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TAMPA, FLA.—Council has passed ordinance calling an election to ratify $300,000 bond issue for new paving and sewerage.

LOUISA, KY.—Sanitary sewer system may be constructed. W. B. Cox, Mgr., Louisa Water Co., is reported interested in matter.

ASHTABULA, O.—Bids are asked until Oct. [illegible] for a sewer in Fassett Ave. A. J. Richardson, Clk. [illegible] Pub. Service.

COLUMBUS, O.—Bids were received as follows by Julian Griggs, Ch. Engr. Board Pub. Service, for constructing levees and masonry work at the sewage disposal plant: The Kinser Construction Co., Terre Haute, Ind., $[illegible],077; Foley Bros., Columbus, $122,772; Strack, O'Brien & Co., Cincinnati, $124,810; Baker, Dull & Warner, Columbus, O., $125,535; C. T. McCracken & Co., Cleveland, $129,084; Jones Bros., Columbus, $129,785; Murphy & Miles, Columbus, $130,705; Fisher, Knight & Co., Columbus, $133,435; D. E. Sullivan & Son, Columbus, $135,[illegible]; Keeling & Ridge Co., Pittsburg, Pa., $153,585. T. A. Gillespie & Co., of Pittsburg, were awarded contract at $113,365 for the work.

DAYTON, O.—Bids are asked by city auditor until Oct. 20 for purchase of bonds to the amount of $20,000 to provide money for the construction of sewers.

SPRINGFIELD, O.—E. G. Bradbury, representing Snow & Barbour, the Engrs., of Columbus, has submitted plans for proposed sewer system to city council and Board of Public Service. It is planned to construct three main sewers, one in the Buck creek valley, one following Mill run and the third following the Indian run, through the fair grounds. The city will be divided into 22 sewer districts, each of which will practically comprise a separate sewer system, but each of which will have direct communication with one of the main sewers, the total amount to be about 120 miles. The system will be constructed gradually. It is estimated that the main system, including the three trunk lines, disposal plant and pumping station will cost about $350,000. The system of disposal recommended is filtration through sand, with septic vats as a preliminary treatment. Several sites for the disposal plant have been considered by council.

MILWAUKEE, WIS.—R. J. Hickey, 255 144th St., was awarded the contract for 1,015 ft. of 30th St. sewer tunnel, at $8.38 per lin. ft.; total, $12,696.

DAVENPORT, IA.—Council is reported to have under consideration the construction of a sewer to drain the entire northern section of the city, about 17,600 ft. Probable cost, $50,000.

ST. PAUL, MINN.—L. W. Rundlett, Cy. Engr., has estimated that cost of a sewer system in Grand Ave. from Finn to Fairview, on Summit Ave. from Cretin to Finn, on Finn Ave. from Summit to Lincoln, and on Lincoln Ave. from Finn to Cleveland, will be about $14,500, or $1.57 per front foot. Grading of Seal St. from the Territorial road to Ellis St. will cost about $2,600, or $1.26 per front foot.

OMAHA, NEB.—James P. Connolly is ssated to have secured the contract for building sewer in District No. [illegible], at $7,281.

Andrew Rosewater, Cy. Engr., writes us that one bid was received on Sept. 30 for constructing Jones St. sewer, that was rejected as excessive. It was submitted by J. P. Connolly, of Omaha, at $[illegible],500. New bids will be advertised for to be received Dec. 2.

FAULKTON, S. D.—At recent election the proposition to issue $6,000 bonds for sewer construction was carried.

KANSAS CITY, MO.—Board of Public Works is reported to be considering advisability of installing a septic sewer system on the south side, at a cost of about $14,000, including filter beds. D. W. Pike is Cy. Engr.

ST. JOSEPH, MO.—Sewerage for this place is being advocated. Board of Public Works probably will consider plans. W. A. Preston is reported interested.

TEXARKANA, ARK.—J. E. Daugherty, of Texarkana, Tex., has been selected to prepare plans for additional sewers for this city, according to report.

GARBAGE DISPOSAL—STREET CLEANING

NEW YORK, N. Y.—Bids are asked by Board of Health, 55th St. and 6th Ave., until 10 a. m., Oct. 20 for labor and materials necessary for removal of night soil, offal and dead animals from all boroughs of New York during ensuing five years. Thomas Darlington, M. D., Pres.

PHILADELPHIA, PA.—Contract for cleaning streets for ensuing year, bids for which were opened Sept. 1, has been let to E. H. Vare for $950,000.

LOUISA, KY.—Louisa Water Co., W. B. Cox, Mgr., is reported to be considering purchase of garbage disposal plant.

MARION, O.—Board Public Service in reported to be calling for bids until Oct. 19 for construction of sewage and garbage disposal plants, to cost not more than $53,000.

STREETS AND ROADS.

PROVIDENCE, R. I.—The New York, New Haven & Hartford R. R. Co. awarded to F. E. Shaw, City, the contract for removal of Acorn St. grade crossing. The cost, including land purchased, will be about $150,000, of which the city will pay $18,000 for paving approaches to bridge over tracks.

GLASTONBURY, CONN.—Highway Commissioner McDonald has awarded to H. J. Mullen, of Woodhaven, N. Y., a contract for construction of 2,773 lin. ft. macadam road here, and a concrete culvert at $5,664.

BUFFALO, N. Y.—Bids are asked by Department Public Works until 11 a. m., Oct. 14, for paving Villa Ave., Triangle Place and Letchworth St. Francis G. Ward, Comr.

LAWRENCE (L. I.), N. Y.—A special election has been called by Village Trustees for the purpose of voting on the issuance of $10,000 bonds to grade, pave and improve certain streets and highways.

NEW BRIGHTON (L. I.), N. Y.—Bids are asked until Oct. 18 by Geo. Cromwell, Pres. Boro. Richmond, for furnishing material and repaving with second-hand granite or Belgian block on sand foundation gutters on portions of Bugher and Bement Aves. and Morningstar Road, requiring about 3,170 sq. yds. granite or Belgian block, including sand-bed laid with paving pitch joints, etc.

NIAGARA FALLS, N. Y.—Bids were received by Board Public Works for paving South Ave., as follows: Barber Asphalt Co., $7,662; H. P. Burgard, $7,790; German Rock Asphalt Co., $7,997. Bids were referred to City Engineer.

ROCHESTER, N. Y.—Ordinance to pave and curb portion of Liberty St. was passed by Council. Est. cost, $3,500.

SCHENECTADY, N. Y.—Ordinances to improve Monroe and Jefferson Sts. and Central Ave. have been passed by Common Council.

SYRACUSE, N. Y.—The Board of Contract and Supply awarded to F. J. Baker, at $3,603, a contract for paving Wyoming St. with Nelsonville block.

ASBURY PARK, N. J.—Bids are asked by W. H. Harrison, Chn. Street Com., until Oct. 17 for grading and gravelling of certain streets and avenues in borough of Avon-by-the-Sea. Plans and specifications may be seen at office of R. C. Love, Boro. Engr., at Garfield Ave. and Main St. H. F. Stanton, Clk.

ATLANTIC CITY, N. J.—Bids are asked by the Street Committee until Oct. 24 for constructing about 93,000 sq. yds. of bitulithic or asphalt and 12,000 sq. yds. of fire clay block pavement, excavating 47,000 cu. yds. and 2,900 ft. of bluestone heading stones. J. W. Hackney, Cy. Engr. (Advertised, Engineering News.)

CAMDEN, N. J.—An ordinance authorizing the repaving of Seventh St. with sheet asphaltum has been passed by City Council. H. C. Kramer, Clk.

ELLIOTT, PA.—Borough is ready to receive bids for paving and curbing Lorenz Ave. with brick. Est. cost, $10,000.

FAYETTE CITY, PA.—The Council awarded contract for 5,500 yds. Reese-Hammond Fire Brick Co.'s block. Fayette Engineering & Contracting Co., Uniontown, Pa., will do the work.

HARRISBURG, PA.—Bids are asked by State Highway Department until Oct. 24 for construction of 3,162 ft. road in Cumberland County and 17,025 ft. road in Lycoming County.

INGRAM, PA.—Councils have passed ordinances authorizing the grading, paving and otherwise improving borough's streets. $30,000 will be expended.

PITTSBURG, PA.—An ordinance authorizing and ordering the regrading and repaving of Marion Ave. was passed by Council. Lafayette Wills, Cy. Clk.

READING, PA.—Mayor Yeager has signed the resolution to appropriate $20,000 from the general revenue for needed highways.

SWISSVALE, PA.—Bids are asked by F. H. Seaman, Chn. Street Com., until Oct. 15 for grading, curbing and paving of Florence, Wayne, Monroe and Church Sts. and Braddock and Schley Aves.

BALTIMORE, MD.—The Highway Commissioners have decided to reject all bids for the improvement of Park Heights Ave. New bids will be advertised for.

BALTIMORE, MD.—County Commissioners awarded the contract for macadamizing and all construction work on Park-Heights Ave. to Hook & Ford for $32,915. Work to begin at once. The improvement will cover about four miles of road.

CENTERVILLE, MD.—County Commissioners are completing plans for the permanent improvement of seven miles road under direction of the Maryland Highway Division.

PARKERSBURG, W. VA.—Bids are asked by Board Public Works until Oct. 15 for 4,000 ft. brick paving and stone curbing on various streets. Est. cost, $12,000.

ALLIANCE, O.—The bid of Smith & Bros., of Salem, $17,771, for paving State St. with Garfield block has been excepted.

ASHTABULA, O.—Putman & Starkweather, City, were the lowest bidders for paving of King and Fisk Sts., at $8,833 and $16,729 respectively. A. J. Richardson is Cy. Clk.

CANTON, O.—Bids are asked by Board Public Service until Oct. 24 for grading, curbing and laying flagstone sidewalks on Elizabeth, West North and North Court Sts. Plans and specifications on file in office of Board, Engineering Department.

CELINA, O.—Henry Lennartz, Cy. Clk., announces that the ordinance for $22,000 worth of bonds for paving Main St. has passed the Council.

CINCINNATI, O.—A contract was awarded by Board Public Service to Wm. Fogarty for the improvement of Scioto St. with brick, his bid of $6,845 being the lowest. He also secured the contract for improving Humboldt St. with macadam. F. H. Kirchner & Co.'s bid of $3,364 for putting asphalt in Locust St. secured them the contract.

DAYTON, O.—Bids are asked by Board Public Service, Louis Haas, Pres., until Oct. 21 for paving Main St., grading, etc.,; also for construction of a cement wall. Approximate quantities are: 4,385 sq. yds. brick, 6,900 sq. yds. bituminous macadam, or 11,285 sq. yds. brick, 375 lin. ft. protection. Plans on file at office of City Engineer.

LEBANON, O.—Council has passed the resolution providing for the construction of sidewalks, curbs and gutters. R. B. Corwin is Cy. Clk.

LORAIN, O.—Property owners in Seventh and Eighth Aves. have petitioned the Council for asphalt pavements.

TOLEDO, O.—Russell & Denison were awarded the contract for paving Collingwood and Detroit Aves. with 5-in. Manhattan blocks on a concrete foundation at their bid $12,708.

WOOSTER, O.—Bids are asked by Board Public Service until Oct. 15 for paving on a portion of East North St. Wayne Hart, Clk.

XENIA, O.—The City Engineer estimates that the cost of paving Main St. will amount to $50,000. The bond sale to pay for this expenditure will be authorized.

ELKHART, IND.—Bids are asked by Emil V. Anderson, Cy. Clk., until Oct. 26 for construction of cement sidewalks on a number of streets.

MARION, IND.—Bids are asked by John Wilson, Cy. Clk., until Oct. 18 for the improvement of several streets and alleys.

CHICAGO, ILL.—Bids are asked by Board Local Improvements until Oct. 18 for furnishing material for curbing and paving on a portion of Main St. W. G. Gulling, Clk.

JANESVILLE, WIS.—Bids are asked by Street Assessment Committee until Oct. 20, at 2 p. m., for grading Linden Ave.

ST. PAUL, MINN.—Contracts for curbing and macadamizing Grand Ave. and for curbing and macadamizing Floral St. was awarded by Board Public Works to W. J. Prendergast for $3,700.

AUSTIN, TEX.—It is reported that bids will be received Oct. 20 for paving Congress Ave. John B. Hawley, of Fort Worth, Cy. Engr.

EL PASO, TEX.—About 9,000 sq. ft. cement walk is to be built before winter.

BERKELEY, CAL.—The Board of Trustees has ordered the grading, paving and laying of sidewalks on several streets.

SAN MATEO, CAL.—Bids for paving of B, Second and Third Sts. were received by Board of Trustees as follows: Clark & Henry, $12,051; City Street Improvement Co., $10,840. Bids were referred to City Engineer.

LONDON, ONT.—We are informed that contract for paving Queens Ave. with sheet asphalt has been let to Barber Asphalt Co., Toronto, Ont., for $20,888. Bid includes excavation, grading, rolling, concrete foundation, cement curb, headers, etc. Bids were received Oct. 3. A. O. Graydon, Cy. Engr.

MANUFACTURING PLANTS.

MIDDLEBORO, MASS.—Shoe factory of Alden, Walker & Wilde on Clifford St. was burned. Loss, $35,000.

ANSONIA, CONN.—The contract for building an addition to the works of Sidney Blumenthal Co.'s silk velvet mills has been awarded. The addition is to be of brick, 120 × 50 ft.

WATERTOWN, CONN.—Architects are figuring on a three-story frame addition for Hemingway & Bartlett Silk Co. The building will be about 40 × 70 ft. and of regular mill construction and have a tin roof. No contracts have been awarded yet.

ENDICOTT, N. Y.—The Bundy Adding Machine Co. will begin at once the erection of the proposed factory. Cost, $50,000.

GLENS FALLS, N. Y.—Finch, Pruyn & Co. are erecting a paper mill here. H. S. Ferguson, Millinocket, Me., is Engr. Contracts for excavating and concrete work was awarded some two months ago to Ward Bros., Kennebunk, Me. A large part of the machinery is already bought and arrangements practically completed for the erection of the buildings. The contract for structural steel will be let within a week.

RICHFIELD SPRINGS, N. Y.—The Waiontha Knitting Mill will erect a new building on Elm St., 120 × 50 ft. New machinery will be installed. John Bringloe is Mgr.

CAMDEN, N. J.—The Fries-Breslin Co. will rebuild factory recently destroyed by fire.

CHESTER, PA.—The Seamless Rolled Steam Pipe Co., Real Estate Trust Bldg., Philadelphia, is ready for bids for construction of a plant here.

CONNELLSVILLE, PA.—The Yough Brewing Co.'s plant will be rebuilt. Geo. Gay of Milwaukee, Wis., is Arch. It is reported that an almost entire new outfit of machinery will be installed. Cost, $150,000.

HANOVER, PA.—A new silk factory will be erected here by a new company recently incorporated with $100,000 cap. stock. The incorporators are: G. D. Gitt, John Krug and others.

LANCASTER, PA.—A. B. Moore has been awarded the contract for a factory for the Lancaster Silver Plate Co. Brick, 2 stories, 175 × 40 ft.

PHILADELPHIA, PA.—Plans have been prepared by Milligan & Weber, Archs., 520 Walnut St., for a five-story building, 40 × 65 ft., to be erected at 207-9 North Carlisle St., for the Heymann estate.

WAYNESBORO, PA.—The Geiser Mfg. Co. has plans about completed for an addition to their plant. Brick and steel, 1 and 2 stories, 140 × 70 ft. and 220 × 70 ft.

MORGANTOWN, W. VA.—It is reported that a fire entirely destroyed the window-glass plant of W. R. Jones Co. Loss, $60,000.

SALISBURY, N. C.—A woodworking plant will be established here, with W. G. Anderson, Manager. Capital, $100,000.

ROCK HILL, S. C.—The Commercial Club is in correspondence with a glove manufacturer, of Gloversville, N. Y., relative to locating a branch factory in Rock Hill.

WHITMIRE, S. C.—A company has been organized here to erect a handkerchief factory. W. H. Razor is Pres.

CUTHBERT, GA.—Cawhern Bros., of Bronwood, will locate a branch of their plumbing business here, and manufacture gas machines.

GRIFFIN, GA.—It is reported that the Rushton Cotton Mills will expend $25,000 for new machinery. B. B. Brown is Pres.

SAVANNAH, GA.—W. W. Almar & Co. will establish a 35-ton ice plant in connection with their planing mills. Machinery has been purchased.

A. J. McArthur, Gainesville, Fla., will remove to this city at once for the purpose of engaging in the manufacture of wood spirits, turpentine, oil of tar and other by-products of the pine tree. Mr. McArthur has not yet decided as to the exact location of his plant.

ARCADIA, FLA.—W. H. Simmons will erect a pressed brick factory here.

BIRMINGHAM, ALA.—T. R. Trainer, Chester, Pa., contemplates the erection of a 10,000-spindle cotton mill in this city.

HUNTSVILLE, ALA.—Articles of incorporation of the Sidney Lucas Distilling Co. have been filed by Sidney Lucas, D. C. Maloney and others, of Nashville, Tenn. The capital is to be $100,000. The purpose of the company is to establish a distillery in or near Huntsville.

COLUMBIA, TENN.—Jos. B. Ranny, who owns an incubator factory at Bellefontaine, O., contemplates establishing a branch plant here, at a cost of $25,000.

KNOXVILLE, TENN.—T. C. Fox will build bottling works on Central St.

SOMERSET, TENN.—The Wright Roller Mills, burned recently, will be rebuilt at once.

LOUISVILLE, KY.—The Louisville & Nashville R. R. Co. will erect a machine shop here. Cost, $2,500,000. There will be 13 acres under one roof. R. Montfort, City, is Ch. Engr.

CINCINNATI, O.—The Milralovitch-Fletcher Co. has purchased property at 520 East Pearl St. and expects to erect a $60,000 plant. S. S. Godley, 803 Neave Bldg., is Arch.

CLEVELAND, O.—The Collings-Taylor Co., woolen manufacturers, will erect a three-story brick factory on Clarkwood Ave. Cost, $6,500.

RAVENNA, O.—The Overland Worsted Mills Co. will be enlarged to the extent of $100,000.

INDIANAPOLIS, IND.—The Whiteside Wheel Co. of Grand Rapids, Mich., will be moved to Indianapolis. Several sites for new plant have been considered, but none have yet been selected. Lewis Hoover, Secy., Commercial Club, can give information.

CHICAGO, ILL.—Paul Gerhardt, Arch., Schiller Bldg., has prepared plans for a five-story building to be erected at Huron and Kingsbury Sts. for Edward E. Emmerich. Cost, $100,000.

TOPEKA, KAN.—A. L. S. Green, 712 Kansas Ave., is at head of a company of local capitalists who contemplate erecting a packing house here. $50,000 is being raised.

KANSAS CITY, MO.—The Beggs Wagon Co., Carrollton, Mo., will erect a wagon factory here.

STUTTGART, ARK.—The Burks & Lancaster Mill Co. has incorporated with $15,000 cap. stock, of which $8,000 has been subscribed. The company proposes to erect a flouring mill here. Ray O. Burke is Secy.

OKLAHOMA CITY, OKLA.—The Wire Goods Co. has been chartered with a capital of $30,000 to manufacture wire goods, etc. The directors are: F. M. Gault, J. H. Hess and R. H. Wilkins, all of this city.

TACOMA, WASH.—J. J. Anderson, of Milwaukee, Wis., has offered to procure $60,000 for a steel plant here, provided the citizens of Tacoma contribute $30,000. Chamber of Commerce will attempt to raise the sum.

HAYWARDS, CAL.—D. Chisholm, of the Haywards Agricultural Works, has formed a company to be known as the Haywards Mfg. Co., which will erect a new plant in Haywards. It is proposed to install a complete planing mill plant. E. W. Merin will act as general manager.

KERN, CAL.—The Southern Pacific is to double the size of its machine shop here. A large carpenter shop, with quarters for car repairing department, is to be erected at once. C. H. Markham, of San Francisco, is Gen. Mgr.

LOS GATOS, CAL.—The Board of Trade has received a communication from Springfield, Mass., asking for information relative to the establishing here of a canning and preserving factory.

SAN JOSE, CAL.—Chas. Rea is to erect a dairy on his ranch a few miles northwest of this city which will cost $75,000. The floors of the building will be of concrete.

TUSCON, ARIZ.—The Tuscon Ice & Cold Storage Co., composed of N. W. Bernard, Geo. Pusch et al, and C. W. Phelps, Mgr., is contemplating improvements to the extent of $100,000. A permament cooling tower will be built, condenser changed and a York plant will be installed, with compound condensing engines.

MISCELLANEOUS CONTRACTS.

PARKS.—New York, N. Y.—Board of Estimate has been considering establishment of 13 new parks in Brooklyn, at total cost of about $7,200,000.

TELEPHONE SYSTEM.—Waitsburg, Wash.—Steps are reported to have been taken for building city telephone system. Emmet Henderson is Secy. Com.

INCLINE RAILWAY.—Los Angeles, Cal.—J. D. Vandergrift has secured franchise to build an incline railway on east side of Court St., leading from Broadway.

PIER.—Wildwood, N. J.—Contract for erecting $100,000 ocean pier at this place for Reynolds & Buckhorn, Camden, N. J., is stated to have been let to Bramer & Goslin.

DREDGING.—New London, Conn.—Bids are asked until Oct. 28 for dredging in New Haven Harbor. Lt.-Col. Chas. F. Powell, Engrs. (Advertised, Engineering News.)

TUNNEL.—Boston, Mass.—Bids are asked by Boston Transit Commission, 15 Beacon St., until Oct. 27 for constructing Sec. 1 of Washington St. tunnel. B. Leighton Beal, Secy. (Advertised, Engineering News.)

DREDGING.—Washington, D. C.—Bids are asked until Nov. 2 for dredging in the Potomac River, and Nomins Creek, Va. Capt. W. P. Wooten, Engrs. (Advertised, Engineering News.)

DRAINAGE DITCH.—Allegan, Mich.—Letting of contracts for construction of Gun River drain has been postponed until March 28, 1905. Elmer E. Gable is Drainage Comr., Allegan County.

DAM.—Richmond, Ind.—As result of an agreement between the city, the Richmond Street & Interurban Co., and the Starr Piano Co. a new dam will be built across Whitewater River in this city.

EARTHWORK.—New Orleans, La.—Bids are asked until Oct. 17 for constructing about 161,000 cu. yds. earthwork in Lafourche and Pontchartrain Levee District. Capt. J. F. McIndoe, U. S. Engrs.

FIRE ENGINE.—East Grand Forks, Minn.—Bids are asked by E. R. Jacobi, Cy. Recdr., until 8 p. m., Oct. 17 for steam fire engine of 600 gallons per minute capacity. Allowance must be made for the old engine.

BOILERS, STACK.—Tarentum, Pa.—Bids are asked by W. A. Gibson, Borough Secy., until Oct. 17 for furnishing two 150-HP. water tube boilers and for erection of iron, brick lined in brick stack for power plant.

AIR COMPRESSOR.—Montgomery, Ala.—Bids are asked until Nov. 7 for furnishing and installing an air compressor at the Court St. Pumping Station. R. S. Williams, Cy. Treas. (Advertised, Engineering News.)

STEEL WORK.—Washington, D. C.—Bureau Yards and Docks has let contract for steel work for coal handling plant at New Orleans to McClintic-Marshall Construction Co., Pottstown, Pa., for $9,850. Bids opened Sept. 24.

DAM.—Wilmington, Del.—Manufacturer's Contracting Co., Wilmington, has received contract for constructing storm dam containing about 1,300 cu. yds. masonry for E. I. Du Pont de Nemours & Co. Est. cost is $6,000.

LEVEE WORK.—New Orleans, La.—Bid of Jas. R. Marlow, Darrow, La., was recommended for acceptance for about 75,600 cu. yds. levee work. Total of bid was about $16,000. Bids were opened at U. S. Engineers Office, Oct. 1.

PILING.—Duluth, Minn.—Bid of Alexander J. MacDonald, Superior, Wis., has been recommended for acceptance for furnishing U. S. Government with 32,200 lin. ft. of piling. Contract price was about $4,070. Bids opened Oct. 3.

PIPE SCOW.—Philadelphia, Pa.—Bids are asked until Nov. 7 for constructing elevated discharge-pipe scow for pontoon pipe line for Southwest Pass, Mississippi River. Major J. C. Sanford, U. S. Engrs. (Advertised, Engineering News.)

DRAINAGE CANAL.—Edwardsville, Ill.—County Court will be petitioned to establish Cahokia Drainage and Levee District, which will have for its object drainage of about 30,000 acres. Judge W. P. Early, Edwardsville, may be interested.

QUAY WALLS AND PIERS.—Portsmouth, N. H.—Bureau Yards and Docks has awarded contract at $199,900 for quay walls and pier at Portsmouth Navy Yard to Roy H. Beattie, 57 North Main St., Fall River, Mass. Bids were opened Sept. 3.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

TIMBER JETTY.—New York, N. Y.—Bids are asked by Park Board, Fifth Ave. and 64th St., until Oct. 20 for material and labor for completing timber jetty on the beach at Coney Island. John J. Pallas, Pres.

HARBOR WORK.—Chicago, Ill.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for rebuilding superstructure and laying new decking in Calumet Harbor, Ill. Bids are asked until Nov. 4, as advertised in Engineering News.

DREDGING.—New York, N. Y.—Morris & Cummings Dredging Co., 17 State St., New York, were awarded contract at $879,000 for about 2,100,000 cu. yds. dredging in North River for this city. Bids were opened by Department Docks and Ferries, Sept. 28.

TUNNEL, ETC.—Lincoln, Neb.—Bids are asked by Geo. W. Marsh, Secy. State, until 12 p. m., Oct. 15 for constructing tunnel, sewerage connection, setting of steam apparatus and its connection with water supply and sewerage at Soldiers and Sailors Home, Milford, Neb.

BOILER.—Reading, Pa.—Bids are asked until Oct. 28 for a tubular boiler 78 in. in diameter, 18 ft. long with foundations, brick work, castings, smoke connections, fittings and attachments, at the Berks County Almshouse. John F. Alcona, Co. Controller. (Advertised, Engineering News.)

UNDERGROUND CONDUITS, ETC.—New York, N. Y.—Bids are asked by the Park Board, Arsenal Bldg., until Oct. 20 for construction of system of underground conduits, removing and replacing of plumbing pipes, and for miscellaneous work for Aquarium Building. John J. Pallas, Pres.

LEVEE.—Sacramento, Cal.—Board Trustees have appropriated $10,000 to assist in construction of boulevard levee from Y St. down the river to Fresport. About $55,000 will be appropriated by other bodies. George W. Peltier, Chn. Citizens Com., is on Commission to direct expenditure of funds.

PIER, BULKHEAD.—Philadelphia, Pa.—Press reports state that B. & O. R. R. has let contract for construction on Delaware River, north of Race St., of 600 ft. long and 60 ft. wide pier to MacLean Construction Co., of New York. Same firm was awarded contract for new bulkhead extending 102 ft. between present pier and the new one.

WHARF, DREDGING, ETC.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Oct. 29 for constructing timber wharf and buildings, and doing incidental dredging, grading, etc., at the Government Landing, Newport, R. I. Specifications for the above work are on file at office of Engineering News, 220 Broadway, New York.

LAMPS, DRILLS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Oct. 25 for furnishing navy yards, etc., Portsmouth, N. H., Boston, Mass., Newport, R. I., and Narragansett Bay, R. I., with naval supplies, among which are incandescent and arc lamps, pneumatic rock drills, fire hose, sheet steel, piles, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

WIRE, ELECTRICAL SUPPLIES, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Oct. 18 for furnishing at navy yards, League Island, Pa., Washington, D. C., and Naval Academy, Annapolis, Md., a quantity of naval supplies, among which are rubber-covered wire, Portland cement, lime, pine piling, hydraulic jacks, etc. H. T. B Harris, Paym.-Gen., U. S. N.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Nov. 8 to furnish to the navy yards, etc., Portsmouth, N. H., Boston, Mass., League Island, Pa., Norfolk, Va., and New Orleans, La., as specified, a quantity of machine tools, etc., comprising lathes, planers, bending and straightening rolls, expanding machines, cutting-off machines, engraving machine, band-sawing machine, punching machine, milling machines, shears, helve hammer, steam hammer, air compressor deck winch, drill, drill presses, car-wheel press, motor drives for various machines, traveling cranes, locomotive crane, centrifugal pump, steam pump, valve pump, steering engine and coal cars. H. T. B. Harris, Paym.-Gen., U. S. N.

ELEVATOR, BOILERS.—New York, N. Y.—Bids are asked by Department Public Charities, foot of E. 26th St., until Oct. 20 for labor and material for erection of passenger elevator in north wing of Cumberland St. Hospital. Bids are also asked by same department until Oct. 20 for labor and material required to install two 50 HP. boilers, one hot water tank, one return tank and feed pumps, one fire service pump with all the usual and necessary connections; also remove present heating boilers and high-pressure boiler, and run 2½-in. water main at same hospital. Bids will likewise be received until Oct. 20 for installing new boilers and making alterations to boiler house of city hospital, laundry, Blackwell's Island. James H. Tully, Comr.

STEAM SHOVELS.—Washington, D. C.—Following bids were received Oct. 6 by Isthmian Canal Commission for (1) five steam shovels of between 65 and 75 tons weight and for (2) six steam shovels of from 90 to 100 tons weight: Atlantic Equipment Co., 25 Broad St., New York, (1) $8,800 each, (2) $11,500 each, intermediate size, $10,150 each; Bucyrus Co., South Milwaukee, Wis., (1) 70 ton, $41,250, (2) 90 ton, $67,500, (3) in accordance with company's specifications, 95 ton, $76,000; A. Hart & Co., 257 Broadway, New York, $8,000 for one 65 ton second-hand shovel f. o. b. Jersey City, N. J.; Vulcan Iron Works, Toledo, O., (1) 70 ton, $48,750 or $9,750 each, (2) 100 ton, $78,000 or $13,000 each, deduct $250 per shovel if not boxed; Marion Steam Shovel Co., Marion, O., (1) $15,900, (2) $15,600.

MINING NOTES.

MINING COMPANY.—Duluth, Minn.—Syracuse Mining Co. has been incorporated with $50,000, and will have headquarters in this city. Gustav Von dan Steinen, Glenville, O., is interested.

SMELTER ENLARGEMENT.—Bingham, Utah.—It is stated that reverberatory furnaces are to be installed in the Yampa smelter. The plant will be brought up to a daily capacity of 550 tons. Walter S. Kelley is Gen. Mgr.

MINING COMPANY.—Syracuse, N. Y.—Just Mining & Extraction Co. has been incorporated to conduct a mining business, using a process invented by Dr. John A. Just, Pulaski, N. Y. Senator Richard F. Pettigrew, Sioux Falls, S. Dak., is interested.

REDUCTION PLANT.—Phoenix, Ariz.—Advice from this city states that E. E. Greenwood, representing the Mount Union Mining Co., has purchased three groups of claims in Hassayampa District. A $70,000 reduction plant will be erected on the properties.

COAL TUNNEL.—Wilkesbarre, Pa.—Lehigh Valley Coal Co., S. D. Warriner, Gen. Mgr., is asking bids until Oct. 20 for driving a 7-ft. by 10-ft. tunnel a distance of about 2,400 ft., and sinking a 14-ft. by 33-ft. shaft a distance of about 180 ft., at Blackwood colliery, Reilly Township, Schuylkill County. Plans and specifications may be seen at the office of A. B. Cochran & Son, Engrs., Pottsville, Pa.

READERS' WANTS

This Department contains special requests and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

CEMENT BLOCK MACHINES.—Kansas City, Kan.—L. H. Ellis, Cy. Engr.'s Office, writes us that he wants catalogues from firms making cement block machines.

MERCURY FILLED PLUMB BOBS.—Lowell, Mass.—H. O. Brooks, 17 Nicollet St., writes us that he wants the addresses of firms manufacturing mercury filled plumb bobs.

BUFFALO PICKERS, OX SHOES AND CLOTH STAMPING MACHINERY.—San Francisco, Cal.—The Shaw Trade Library, Inc., Crossley Bldg., wants the names of firms making the above mentioned supplies.

CEMENT BUILDING BLOCKS.—Tuscaloosa, Ala.—Walter Smith, of the Tuscaloosa Abstract Co., writes us that he wants catalogues from firms manufacturing cement blocks for building construction or of machinery for making the same.

GAS SYSTEM, ETC.—Shamokin, Pa.—Geo. W. Hetrick, of Shamokin, writes us that he wants the address of firms manufacturing for individual use a gas system that evaporates gasoline cold, without the aid of fire, and so creates gas for lighting purposes.

TERRA COTTA TILES.—New York, N. Y.—The Bell Eng. & Construction Co., 220 Broadway, New York, is in the market for 1,175 terra cotta tiles 12 × 17½ × 3 ins., to be delivered at Scarsdale, N. Y. They are for a roof and must be book-shaped, of a porous terra cotta, through which nails may be driven.

FIRE BRICK FOR CUPOLA.—Syracuse, N. Y.—W. M. Booth, Pres. Technical Investigation & Construction Co., 712 Dillaye Bldg., writes us that he wants names of firms who manufacture fire brick for cupolas used in foundries. It is desired that a small sample be sent.

COPPER, WIRE, PIPE, ETC.—Harrisburg, Pa.—The Stulen Co., C. E., 14 So. Market St., writes us that they want the addresses of firms engaged in the manufacture of copper, particularly for electrical work, and also of copper wire and pipe. Address Geo. Bergengren.

PAPER TUBING MACHINES.—Scranton, Pa.—E. C. Owens, care of Rice, Levy & Co., Scranton, writes us that he wants the addresses of manufacturers of machinery for paper forming and paper tubing, similar to the samples that may be seen at the office of Eng. News, 220 Broadway, New York.

NARROW GAGE SECTIONAL RAILWAYS AND LOCOMOTIVES.—New York, N. Y.—Henry McManus, 60 Wall St., New York, writes us that he wants the names and addresses of firms manufacturing the above for use on sugar plantations. About 3½ miles of light rails will be wanted. The address of firms prepared to furnish the above second hand are also wanted.

MEXICO.

RAILWAYS.

CHIHUAHUA.—It is stated that W. C. Greene, of La Cananea, and Frank Murphy, Prescott, Ariz., Pres. Santa Fe, Prescott & Phoenix Ry., have purchased the Rio Grande, Sierra Madre & Pacific Ry., a line 150 miles in length, extending from El Paso to the Mormon Colonies in Mexico. The road is to be extended to the coast in a southeasterly direction so as to traverse the immense tracts of timber land in the mountains of Chihuahua, which have been acquired by the above-mentioned parties.

HUNUCINA, YUCATAN.—Tomas E. Ramos has been granted concession for railway, with telegraph or telephone lines, from Hunucina to the port of Steal. Road will be about 25 kilometers long and is to have a gage of 3 ft.

LA DICHA, GUERRERO.—It is stated that active construction work will be commenced soon on projected railroad to furnish transportation facilities for La Dicha Mining Co., which is developing copper deposits at this place. The projected road, which will be narrow gage, will extend from La Dicha to the Pacific port of Marquez, 76 miles, and from there on to the Chilpancingo. Surveys have been made. The road will be built by the La Dicha & Pacific R. R., the stockholders of which are principally those interested in La Dicha Mining Co., among whom are George Mitchell and Robert Mitchell.

MORELIA.—Department of Formento has been asked for a concession for the construction of a railroad from this town to Magdalena, State of Michoacan.

ORIZABA.—Reports from this place state that Woodhouse & Hardie have been awarded contracts involving about $1,000,000 (Mexican), for building culverts, wing abutments and retaining walls for the Vera Cruz & Pacific R. R. Material will be obtained from large quarry near Acatala. John Hardie, Jr., of the contracting firm, will be in charge of the quarry, which will be equipped with modern machinery. It is also stated that Hamson & Smith, City of Mexico, will establish large rock crushing plant at Penuelos to furnish ballast for the road bed.

SONORA.—Department of Communications has amended the contract entered into with Joaquin D. Casasus for the construction of a railway from Guaymas to San Marcial, Sonora. In the amended contract 33 kilometers must be constructed within one year, and 33 kilometers in each ensuing year, and the whole line completed within four years.

STREET AND ELECTRIC RAILWAYS.

CHIHUAHUA.—S. L. Pearce, of Chihuahua, has returned from New York and other points in the United States, where he went a few weeks ago for the purpose of promoting the project of taking over the existing street railway system in Chihuahua and the Mineral R. R. which runs from Chihuahua to the Santa Eulalia mining town. It is stated that Mr. Pearce met with success on his visit, and that two American syndicates have taken hold of the project, negotiations for the purchase of the two properties being now in progress. It is planned to merge the two properties and to convert them into electric lines.

CITY OF MEXICO.—Plans for the Atzcapotzalco and Spanish cemetery lines of electric tramways, in the city of Mexico, have been submitted to the Government for approval. The Banos line will be changed from mule to electric traction as soon as possible. Both lines are owned by the Federal District Tramway Co.

MAZATLAN.—Harold H. Miller, Secy. Occidental Construction Co., has applied to City Council of Mazatlan for concession for construction and operation of a system of electric street railway in this city. In addition to building this system, this company has taken preliminary steps towards building an electric railway between Mazatlan and the city of Culiacan, the capital of the state of Sinaloa. Lewis Warfield is Gen. Mgr. of the company.

LIGHT AND POWER PLANTS.

CITY OF MEXICO.—Application has been made to the Federal Government, by Luis MacGregor and Lorenzo Lancaster Jones, for a concession to utilize the waters of Patzouaro Lake, State of Michoacan, for irrigation and motive power. The applicants propose to construct a canal and a tunnel together, measuring from 18 to 20 kilometers, and to connect this waterway with the river Santiago or Rio Grande de Morelia.

CITY OF MEXICO.—It is stated that William Bradshaw has obtained the contract for erecting the poles for the proposed transmission line of the Mexican Light & Power Co. from Necaxa to El Oro.

DURANGO.—The electric light plant at Durango, according to reports, is to be greatly enlarged, new machinery will be installed and additional lights placed in the city streets.

GUANAJUATO.—The Guanajuato Power & Electric Co. contemplates the construction of transmission lines to the city of Celaya, State of Guanajuato, and La Barca, Jalisco.

MONTEMORELOS.—Referring to contract for electric light plant, which Van Voorhis Hinos, Engrs. and Contractors, Monterey, Mex., have secured, we are informed that plant is to be operated by water power, and that contracts have already been let for Crocker-Wheeler dynamos and Victor turbines. The capacity of the plant will be about 2,000 lights, and electricity will be transmitted about eight kilometers at 10,000 volts to this city. At present the contractors are in the market for electric supplies only.

JOJUTLA, MORELOS.—Samson Lang has applied to the Mexican Government for a concession to install a large electric power plant on the Amacusac River near Jojutla.

PARRAL, CHIHUAHUA.—Ramon F. Lujan and Julio Muller, who recently obtained a concession from the Mexican Government to build and operate a large electric power plant and transmission lines in this state, will soon purchase the necessary machinery in the United States. The power plant will be located at a waterfall on Rio del Valle. The electrical energy will be transmitted from that point to the cities of Parral and Jiminez and utilized for lighting and power purposes. Messrs. Lujan and Muller will also establish a large irrigating plant in connection with the electric power enterprise.

VERA CRUZ.—The city council of Vera Cruz has notified the company which has the contract for providing the city with electric lights and power, that unless it makes improvements to its plant and gives better service, steps will be taken to annul its contract and force it to suspend business entirely.

WATER-WORKS.

CORDOBA.—Mexican Construction & Engineering Co., Paul S. Lietz, Pres. and Gen. Mgr., City of Mexico, which was awarded complete contract for installing water-works and sewerage for this place, is stated to have begun work. The company has let contract for furnishing iron pipe to W. J. Glymes, City of Mexico, for $60,000 gold. Contract for furnishing about 50,000 meters of clay piping, let to Mexican Clay Mfg. Co., City of Mexico, as stated in our issue of Sept. 8. Contract for excavating and laying pipe was secured by A. E. Trueheart & Bro., and National Metal Supply Co., secured contract amounting to $100,000 gold. The Mexican Construction & Engineering Co., is stated to have contracts for the next few years aggregating nearly $25,000,000.

MANUFACTURING PLANTS.

CITY OF MEXICO.—It is proposed to erect three plants for the manufacture of bricks from sand and lime near the City of Mexico, and in the future, plants in Chihuahua, Torreon, Tampico and Vera Cruz. C. M. Sandoval, of the firm of C. M. Sandoval & Co., of St. Louis, Mo., is at the head of the enterprise.

CITY OF MEXICO.—Plans have been completed for the new repair shops to be erected by the Federal District Tramway Co., at Indianilla, and it is intended to construct them without delay.

CITY OF MEXICO.—Gasper Salar and A. de Meuse, representing Societe Lyonnaise de la Soie Artificielle of Lyons, France, have arrived in Mexico, and have petitioned Department of Formento for concession to establish large factory for manufacture of silk. It is stated that the initial expenditure will be $1,000,000.

PARRAL.—James I. Long, U. S. Vice-Consul at Parral is stated to have purchased some 30,000 acres of timber land in the western part of the State of Chihuahua, and it is said that sawmills, etc., will be erected as soon as possible.

VERA CRUZ.—George E. Davis, Mgr., of haciendas in Vera Cruz and Tabasco of Tabasco Plantation Co., of 14 Lumber Exchange Bldg., Minneapolis, Minn., has gone to the States. It is stated that his visit has to do with the selection of equipment for the sugar plant which the company proposes to install at the Oaxaquena plantation in Vera Cruz.

MISCELLANEOUS.

STAMP MILL.—Sonora.—San Blas Mining Co., operating near the town of Caborca, Altar district, Sonora, proposes to erect a large mill.

MINING MACHINERY.—City of Mexico.—A German syndicate has lately purchased the well-known Elephante mines, and orders will soon be placed in the United States for machinery.

MINING MACHINERY.—Durango.—Gavalane Mining & Milling Co., Chicago, Ill., which owns the Gavalane mines at Sonora, will have a site prepared on which to erect a 500-ton mill. Another 20-ton mill is to be erected at once. Don Arturo Moeller is Engr.

SMELTER.—Torreon.—American-Mexico Mining & Development Co., Chicago, Ill., is reported to be planning the construction of a 1,000-ton smelter at Torreon and another at Velardena, State of Durango. The company will also place contracts shortly for a 5,000 HP. boiler plant.

WAGON ROAD.—Chihuahua.—M. A. Knapp, the engineer who lately located the line for a wagon road from Minas to Ocampo mining district, estimate that cost of the road will be about $100,000. The governor of the state, Enrique Creel, is considering the question of the construction of the road.

ORE TREATING PLANT.—Alamos, Sonora.—A company of English capitalists has been formed to operate a group of gold mines near Alamos, Sonora. T. M. Carson is Asst. Gen. Mgr. It is said that the company intends to erect a plant for treating the ore on the ground and expects to have its plans perfected for this purpose by fall.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*PIPE SEWERS.—Indiana, Pa.—Following bids were received Sept. 26 for constructing pipe sewers; (1) John Herman, Latrobe, Pa. (awarded contract); (2) Bowman Bros., Ardmore, Pa.; (3) J. M. McElwain, New Kensington, Pa.; (4) D. M. Madigen & Co.; price bid includes excavation; R. M. Mullen, Boro. Engr.:

Bids received at Indiana, Pa., Sept 26, 1904, for Constructing Pipe Sewers.

Items.	Quantities.	(1)	(2)	(3)	(4)
Earth excavation	100 cu. yds.	$0.65	$1.00	$1.00	$1.25
Concrete	10 "	7.00	9.00	6.00	8.00
Brick-work	10 "	7.00	10.00	3.00	5.00
Manholes	34	45.00	40.00	35.00	45.00
Lumber	5,000 ft. B. M.	25.00	30.00	20.00	22.00
10-in. sewers, 9.4 ft. deep	4,262 lin. ft.	.74	.90	.80	1.14
8-in. sewers, 8 ft. deep	6,292 "	.66	.70	.70	.71
6-in. sewers	10,195 "	.61	.58	.60	.65
Totals		$16,063	$16,534	$16,666	$19,448

TUNNEL.—Montrose, Colo.—Following bids were received by U. S. Reclamation Service Oct. 5 for constructing Gunnison Tunnel and approaches, in connection with Uncompahgre River Irrigation Project; (1) Lusk & McClurg, Denver, Colo.; (2) Utah Construction Co., Ogden, Utah; (3) Taylor Moore Construction Co., Hillsboro, Tex.; (4) Ferguson Construction Co., Pittsburg, Pa.; (5) W. C. Bradbury, Denver, Colo.; (6) Lantry Sharp Construction Co., Kansas City, Mo.; (7) Orman & Creek, Pueblo, Colo.; (8) J. H. Flick, Kansas City, Mo.; (9) John McKechney, Chicago, Ill.; (10) San Francisco Construction Co., San Francisco, Cal.

BIDS RECEIVED AT MONTROSE, COLO., OCTOBER 5, 1904, FOR CONSTRUCTING GUNNISON TUNNEL AND APPROACHES, UNCOMPAHGRE RIVER IRRIGATION PROJECT.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Portal cut:											
Earth	75,000 cu. yds.	$0.18	$0.16	$0.16	$0.25	$0.16	$0.30	$0.28	$0.35	$0.35	$0.27
Hard pan	15,000 "	.35	.35	.23	.30	.35	.45	.40	.62	.45	.48
Loose rock	5,000 "	.45	.45	.30	.40	.40	.65	.50	.90	.60	.60
Solid rock	25,000 "	.75	.75	.75	.80	.85	.85	.90	1.22	1.55	.70
Portal masonry:											
Rip rap	1,000 "	1.00	1.25	3.00	6.00	1.00	1.50	3.00	1.50	2.00	4.00
Paving	2,000 sq. ft.	.15	.15	.20	.50	.12	.25	.15	.43	.30	.15
Concrete	2,000 cu. yds.	8.00	8.00	6.75	10.00	7.00	10.00	8.00	17.00	7.00	7.50
Tunnel:											
Class 1	10,000 lin. ft.	39.50	50.00	34.14	55.00	43.00	57.00	49.00	62.02	73.48	52.00
Class 2	5,000 "	41.90	54.00	35.10	61.00	45.00	55.00	58.00	68.00	73.76	57.00
Class 3	11,000 "	45.50	57.00	26.60	63.00	46.00	46.00	59.00	71.99	74.46	53.50
Class 4	4,000 "	65.00	60.00	36.60	99.00	57.50	48.03	77.00	96.12	97.52	62.00
Pumping:											
15 ft. lift, 1,000 gal. per hour		1.00	.25	.20	2.50	.03	.10	.50	.08	.10	.50
Over 15 ft. lift, 1,000 gal. per hour		1.25	.35	.55	3.00	.65	.15	.75	.15	.15	.75
Totals		$1,422,050	$1,692,800	$1,008,500	$2,016,250	$1,446,740	$1,618,870	$1,818,300	$2,243,480	$2,404,090	$1,708,000

*DAM.—Cincinnati, O.—Following bids were received by Col. G. J. Lydecker, U. S. Engrs., Sept. 27 for constructing Dam No. 37, Ohio River; (1) Sheridan-Kirk Contract Co., Madison, Ind.; (2) Baker & Egan, Pittsburg, Pa.; (3) Ferro-Concrete Construction Co., Cincinnati, O.:

Bids received at Cincinnati, O., September 27, 1904, for Constructing Dam No. 37, Ohio River.

Items.	Quantities.	(1)	(2)	(3)
Cofferdam, 14 ft. wide	700 lin. ft.	$19.41	$11.00	$26.00
Cofferdam, 18 ft. wide	800 "	20.45	23.00	36.50
Cofferdam, 20 ft. wide	4,100 "	21.68	25.00	42.50
Temporary piling	400 piles	15.00	13.00	16.00
Crib timbers	295,000 ft. B. M.	42.00	40.00	51.00
Clearing land	3.6 acre	150.00	100.00	200.00
Ordinary excavation	99,800 cu. yds.	.50	.50	.65
Deposit excavation	3,000 "	.65	1.00	.85
Rock excavation	19,000 "	2.00	2.50	2.50
Channel dredging	10,000 "	.10	.50	.55
Ordinary filling	94,000 "	.30	.40	.50
Stone filling	5,500 "	2.50	2.50	3.80
Slope walls (dry stone)	7,200 "	3.00	5.00	3.30
Concrete masonry*	60,000 "	4.29	4.00	2.80
Brick paving*	20,300 sq. yds.	1.70	1.50	1.20
Roadways	2,400 "	1.20	1.50	.75
Combination gutter curb*	3,600 lin. ft.	1.00	.75	.40
Open gutter*	2,600 "	.70	.75	.40
Catch basins*	23	30.00	35.00	35.00
Manholes*	1	60.00	75.00	47.00
Sewers*	2,700 lin. ft.	1.20	1.25	.70
Oak timber	264,000 ft. B. M.	72.00	90.00	45.00
Pine timber, white	68,000 "	80.00	90.00	45.00
Cast iron	870,000 lbs.	.045	.05	.036
Wrought iron and steel	2,100,000 "	.06	.06	.05
Steel castings	136,000 "	.09	.06	.11
Bronze	2,400 "	.21	.75	.31
Babbitt metal	300 "	.15	.30	.22
Yellow pine timber	20,500 ft. B. M.	54.00	50.00	40.00
Iron pipe, 3-in.	200 lin. ft.	.24	.35	.55
" 4-in.	1,400 "	.40	.45	.64
" 6-in.	100 "	.56	.80	.87
" 8-in.	1,700 "	1.50	1.50	1.28
Valves, 4-in.	11	4.50	4.00	25.00
Crosses, 4-in.	1	1.75	1.50	1.00
Teas, 4-in.	1	.70	.75	1.00
Elbows, 4-in.	35	.45	.60	.50
Brass pipe	800 lbs.	.40	.40	.29
Totals		$803,461	$835,837	$826,922

*Cement furnished by the United States.

ASPHALT PAVING.—Cuba.—The municipality of Santiago, Cuba, has let a contract to the South American Asphalt Paving Co. (South American branch Barber Asphalt Paving Co.), for 130,000 sq. meters (1,399,320 sq. ft.) of asphalt paving. Pavement is to have 4.72-in. concrete base, 1.57-in. binder and 1.97-in. wearing surface. The contract price was $4.67 per square meter (10.76 sq. ft.) with additional compensation for extra grade. New granite curb is to be laid at $1.22 per lin. meter (39.37 in.).

The company gives a free guaranty of maintenance for the first five years and may, at its option, contract to maintain its pavement in good condition for the following five years at 6 cts. per sq. meter and for a further five years at 8½ cts. per sq. meter.

STORM SEWER.—Watertown, N. Y.—Bids were received Sept. 29 for constructing storm water sewer. C. C. Burns, Watertown, N. Y., was lowest bidder, his itemized bid for the work being as follows: 8,500 cu. yds. earth excavation, $0.60; 650 cu. yds. rock excavation, $2.95; 200 cu. yds. concrete inlet and outlet abutments, $5.40; 2,000 lin. ft. 36-in. tile, $4.92; double strength, $5.35; 800 lin. ft. 33-in. tile, $4.48; double strength, $4.85; 1,200 lin. ft. 30-in. tile, $3.42, double strength, $3.90; 8 manholes, including cast iron top and cover, $65; 4 lampholes, including cast iron top and cover, $12; 800 lin. ft. 8-in. tile, including excavation, $0.55; 25 house and street laterals, $15; 350 lin. ft. present sewer on Academy St., $0.40; for timber, B. M., $25. Total, using standard pipe, $27,173, double strength pipe, $28,905. Henry E. Baker, Cy. Engr.

FOREIGN CONTRACTS—EXPORT NEWS.

RAILWAY, IRRIGATION.—Chili.—Advices from Valparaiso state that a bylaw was promulgated Sept. 22 appropriating $50,000 for surveying railway line between Arica and La Paz, Bolivia, and for developing an irrigation system in Tacna Province.

SEWAGE WORKS.—England.—Town Council of Crewe has under consideration scheme for construction of sewage works at a cost of $300,000.

WATER-WORKS.—Brazil.—Municipality of Novo Friburgo, near Rio de Janeiro, contemplates construction of water-works system.

RAILROADS.—Spain.—The Spanish Government has just granted a concession for the building of three lines of narrow-gage railway. Further particulars can be obtained from the Ministerio plants, de Agricultura y Obras Publicas in Madrid.

IRON BRIDGE.—Venezuela.—Venezuelan Government has authorized building of an iron bridge across the Guaira River, in the city of Caracas. Dr. R. Nunes, of Caracas, the engineer, who prepared the plans and specifications, is to have charge of work.

TRAMWAYS.—Roumania.—Adjudication of concession for constructing and working line of mechanical traction tramways in town of Craiova, will take place at Mayoralty of that town Nov. 7.

RAILWAY.—Switzerland.—A newly incorporated construction company is considering plans for a cog-wheel railway to be built upon Mount Blanc, Switzerland. Surveys are to be made next spring and it is expected that the work will be completed in six years.

BRIDGES, ETC.—South Africa.—Municipality of Bloemfontein, Orange River Colony, may expend $500,000 for widening, straightening and bridging the Bloem Spruit watercourse which traverses that city.

TRAMWAY EXTENSIONS.—England.—It is proposed, according to reports, to extend the municipal tramway system of Liverpool, by building about 12 miles of new line, and 12 miles of single line light railway.

WIRE FENCING.—England.—South Indian Ry. Co., Ltd., Henry W. Notman, Managing Director, 35 Grace Church St., London, E. C., is asking bids until 12 p. m. Oct. 18 for furnishing about 426 tons of iron wire fencing.

COLD STORAGE.—South Africa.—The Government of Cape Colony, South Africa, contemplates the erection of cold-storage depots in all the ports and in the principal trade centers of that country, and the purchase of a large number of refrigerator cars for its railroad lines.

BUILDING.—Venezuela.—Venezuelan Government has approved of the plans to build a national theater at Caracas. Dr. Alexandro Chataing, the originator of the project, has been selected to look after the building operations, and when they are completed to assume the management of the theater.

ELECTRIC PLANT.—India.—A Calcutta firm has applied to the Government of Madras for license to supply electricity throughout the municipal area of Madras. It is proposed to construct a generating station and to supply electricity by underground mains, aerial or any other system approved by the local government.

BUILDING AND TELEPHONE MATERIALS.—Transvaal.—Ordinance has been under consideration by the Transvaal Government sanctioning the expenditure of $600,000 on the completion of Pretoria Lunatic Asylum, $200,000 on works in connection with Government House, Pretoria, and $65,000 on telephone materials.

RAILWAYS.—Argentina.—A concession has been granted to the "Empresa del Ferrocarril Oesta de Buenos Aires" to extend two of its lines of railway about 50 miles each. All materials and machinery for building and equipping these new roads will be granted entry free of duty, provided such articles cannot be manufactured in Argentina.

BOILERS, DYNAMOS, ETC.—England.—Committee of Visitors of Cumberland & Westmoreland Lunatic Asylum, C. W. Allan Hodgson, Clk., The Courts, Carlisle, are asking bids until Nov. 1 for delivery and erection of two Lancashire boilers, feed pumps, steam, exhaust and water piping and valves, two 50 KW. and one 30 KW steam dynamos, 5-ton traveling crane, etc.

MACHINE TOOLS.—Japan.—Japanese Empire is stated to having placed recently contracts for about $2,000,000 worth of machine tools for use on the railroads and in the shipyards and arsenals. The successful bidders are the Niles-Bement-Pond Co. of 136 Liberty St., New York; Manning, Maxwell & Moore of 85 Liberty St., New York; Prentiss Tool & Supply Co., 115 Liberty St., New York; Lodge & Shipley, Cincinnati, O., and the Browne & Sharpe Co., Providence, R. I.

ELECTRIC PLANTS, ETC.—Roumania and Servia.—The Department of the State Railways of Roumania will award contracts for enlargement of the electric plant at Bukharest and for materials and machinery required for electric lighting and furnishing power for the new railway workshops in that city. The department will also receive proposals for supplying machine tools required by the State railways.

ELECTRIC PLANT.—Russia.—Commission of Urban Railways in St. Petersburg has been considering best means for utilizing water power in the districts near that city for working an electric tramway. The waterfalls on the River Vonokea, in Finland, about 150 kilometers from St. Petersburg, were selected. A report of the engineers of the commission sets the cost of obtaining motive power from that source at between $7,000,000 and $8,000,000.

PUBLIC WORKS.—Italy.—Italian Government has appropriated $20,776,540, to be expended by the Ministry of Public Works as follows; $13,973,200 for railroads; $77,200 for assisting in the establishment and maintenance of automobile connections in those districts where there are no railroads; $1,351,000 for improving and enlarging water-works; $579,000 for constructing dams and building embankments to prevent snow slides, and $1,351,000 for work upon highways and bridges.

CANALS, ETC.—Austria-Hungary.—The terms of the Imperial Degree of 1901, by which it was decided to carry out various public works within next 20 years, provide that a maximum sum of $52,000,000 is to be spent during the first construction period, which is from 1904-1912. Of this sum, $15,000,000 is to go for regulating rivers. The work for this first period is as follows: Making navigable the part of the River Moldau through City of Praguge; canalization of the Elbe from Melink to Koniggrats; construction of portion of Danube-Oder Canal from Vienna to the Ostrauer coal fields; construction of that portion of the canal to connect Danube-Oder Canal with the River Weichsel as far as City of Cracow. The construction of a canal from Vienna to Trieste is also under consideration.

ELECTRIC SUPPLIES.—Italy.—The Italian Ministry of Posts and Telegraphs has received authority from Parliament to establish telephonic connections between Brescia and Bergamo; Lecco and Bergamo; Cremona and Piacenza; Genoa, Pisa and Leghorn; Naples, Foggia and Barletta; Naples, Reggio, Calabria and Messina.——The authorities of the province of Rome propose to build an electric railroad between the city of Rome and Civita Castellana.——The city council of Venice has decided to purchase a number of electric launches for use on the canals of that city.——The general inspector of the Adriatic Railroad, whose office is in Rome, has received permission to purchase 150 electric accumulating batteries.——The Adriatic Railroad Co. is planning to build an electric road from Chiasso to Como and Chiavenna.

RAILWAYS.—Peru.—The following engineering commissions to make the survey of three proposed railroad routes from the Cordillera to connect with the great river systems of the interior, have been approved by the consulting commission of the Peruvian Government: First commission, to the rivers Huallaga and Pachitea, Don I. Barrada y Bustamante, Ch. Engr.; Don L. Vantosee, Second Engr. Second commission, to the rivers Huallaga and Pachitea, Don I. G. Voto Vernales, Ch. Engr.; Second Engr., Don C. Oyague y Calderon. Third commission, to the mountain range of Yanachaga, Don A. Tamayo, Ch. Engr.; Don R. Navala, Second Engr. Four months are to be spent in making surveys, and one month for plans and reports.

ELECTRIC TRAMWAYS.—Scotland.—The Town Council of Leith, Scotland, which has acquired the horse-car lines within the borough from a private company, proposes to reconstruct the system. Some weeks ago a deputation was appointed to examine tramways in England and obtain information regarding them. This deputation has returned to Leith from a tour of inspection, and will, it is understood, unanimously recommend to the town council at the next meeting, Sept. 6, the adoption of the single-wire (overhead) electric system, the poles to be placed in the middle of the street with an arm on either side. The style of car to be recommended is that used in Liverpool, having a movable cover over the top. The length of track of the Leith tramways is 5 1-9 miles (double). For further information, after definite action has been taken, and for copies of specifications, etc., electric tramway contractors should address the town clerk of Leith.

HARBOR AND MUNICIPAL WORK.—Para, Brazil.—Capt. Arthur Schindelar, of Para, now visiting the U. S., with headquarters at the Hotel St. George, Brooklyn, N. Y., writes us that he is in this country for the purpose of disposing of the franchise of the Para Dock Co., Ltd., which includes the proposed improvements to the harbor, to cost about $3,000,000, referred to in a recent issue, and of the franchise for the sewering of the city. In addition to the above Capt. Schindelar is interested in the proposed electric lighting of the city. The tramway system will be rebuilt, and so will be the streets in the crowded part of the city. Capt. Schindelar wants to get into communication with the engineers, contractors and supply firms who are prepared to undertake any part of the work referred to, and also of firms financially able to purchase the concessions.

WHARF, HARBOR WORK, ETC.—Haiti, W. I.—W. F. Powell, U. S. Minister at Port-au-Prince, Haiti, writes us that the government has granted a concession to construct a wharf or pier at Port-au-Prince, to be about 900 ft. long, in order that ships may be able to discharge their cargoes at the wharf, instead of by lighters as at present. The pier will be of stone, or granite, and there must be a channel 40 ft. deep and 40 ft. wide alongside. This will require considerable dredging. The national congress before closing passed an appropriation of $300,000 for the construction of works to confine the waters of the Astibonite (the largest river in the republic), within its channel. During the season of the tropical rains this river overflows converting the surrounding country into a lake. This is considered a splendid opportunity for American concerns.

EXHIBITION.—Italy.—Jerome Zeggio, 5148 Morgan St., St. Louis, Mo., Secretary Italian Commission, at the World's Fair, writes us that "the development of the national economy in Italy and the steady increase of the industrial, commercial and agricultunral activity are such to encourage an initiative, tending to make known in Italy the foreign products that are not on the market or that do not come up to the standard which render them useful and preferable to those actually in commerce." Mr. Zeggio's familiarity with the markets of Italy and of the call there is for the various products of industry convinces him that American industry in Italy has not an extensive trade which it really deserves and this, in his opinion, is due most probably, to the system followed in exports that are effected only through American exporting houses. The goods are not handled directly through these companies, but these deal with European importers, who limit themselves to an unextensive business on the principal European markets, without attending to the real important and producing business that with offerings and suitable advertisement could be undoubtedly obtained. Besides this inconvenience, the imported article, passing through these large speculating houses, comes to the actual consumer at such high prices as to render the sales difficult; consequently the sales are very slight. Mr. Zeggio is about to form at Milan, the center of commerce and industry of Italy, a sort of permanent display of specimens, engaging travelling men for the sale in every Italian city. Mr. Zeggio wishes to get into communication with manufacturers.

PAN-AMERICAN RY.—America.—The N. Y. "Sun" recently printed the following regarding the condition of the Pan-American Ry.: "The distance to be covered by the Pan-American is nearly twice that of the proposed Cape to Cairo line, and nearly twice that from St. Petersburg to Vladivostok by the Trans-Siberian. A traveler may now go by rail from New York to Mexico City, a distance of about 3,750 miles, or more than one-third of the way to Buenos Aires. From Mexico City a line is, or soon will be, open to Tonala, near the Guatemalan frontier, by which the traveler will be taken about 550 miles further southward. Here a break occurs of 172 miles to Ayutla, on the border, and thirty miles more to railhead in Guatemala. That state, with Salvador, Nicaragua and Costa Rica, would help the wanderer on his way with a total of some 250 miles of unconnected line, with an excellent opportunity for mule transit between railheads. In fact, so little of the line is built from Tonala, in Mexico, to Jujuy, in Argentina, a distance of nearly 5,000 miles, that the occasional stretches may almost be left out of consideration. The Central American states along the projected route, with the exception of Panama, contribute their little quota. Colombia has nothing along the way. Ecuador has about 25 miles, from the vicinity of Alausi to Guamote. Peru has the recently built line of the American owned Cerro de Pasco Mining Co., from Cerro de Pasco to Oroya, 80 miles, and about 150 miles between Sicuani and Puno, where a steamer may be taken for the trip across Lake Titicaca and connection made with a 60-mile line to La Paz, in Bolivia. There the line breaks again to Oruro, where a narrow gage line can be taken to Uyuni, 195 miles. The next break traversed, the traveler would reach Jujuy, where through connection can be made for Buenos Aires, 1,000 miles away. It is probable that in time a line will branch from Uyuni, or in that neighborhood, and follow down the west coast of Santiago, Chili, 1,000 miles or so, and as far beyond that as traffic may make it desirable. About 2,000 miles from Uyuni would take the line to Punta Arenas, on the Straits of Magellan. Those who wish to speculate on remoter possibilities may dream of the day when their descendants can take an all rail journey from Cape Barrow, in 72 degrees north latitude, to Punta Arenas, in 52 degrees south latitude, or from Hudson Bay to within a few miles of Cape Horn."

CAPE TO CAIRO RY.—Africa.—The following information lately appeared in the N. Y. "Sun": "A recent number of "South Africa" presents an interesting diagram of the present state of that Cape to Cairo Ry. Forty-eight per cent. of the line is already constructed and in operation. Trains now run from the Mediterranean to Assuan, 690 miles up the Nile. Thence a waterway is open for 220 miles, to Wady Halfa. From that point trains run 560 miles southward to Khartum, the present railhead. From Cape Town, a line now in operation runs by way of Kimberley, Mafeking and Buluwayo to Victoria Falls, a distance of 1,600 miles. Construction is going on northward from Victoria Falls to Broken Hill Mine, a distance of 350 miles. A 450-mile line is projected beyond that point to the southern end of Lake Tanganyika. It is approximately 3,000 miles between Victoria Falls and Khartum, those points being taken as the present northern and southern railheads. About 1,600 miles of this gap is traversed by water routes, or can be made so. Of the 1,400 miles to be covered by rail, 800 miles lie between Victoria Falls and Lake Tanganyika. The remainder is represented by projected lines making connections between waterways. As at present planned, the route is at best exceedingly awkward, involving numerous transfers of passengers or freight from boat to train and from train to boat. But it will be several years before this becomes a matter of serious moment. Few will care to travel that way, and through freight will be very limited in quantity. The probability is that long before any direct Cape to Cairo line is completed, or even required, a different system of connection will be opened. This would involve the completion of an all rail connection between Cape Town and Lake Tanganyika. It is reasonable to expect the construction of that line at no very distant day. It is also probable that an early date will see the present Uganda line connected with the already constructed Nile line, bringing Cairo into direct communication with Lake Victoria Nyanza. A 200-mile line would connect Victoria Nyanza wth Tanganyika, and a through route, not greatly out of direct line, be opened. This would involve construction on German territory, but inasmuch as Germany will probably build a German line to Victoria Nyanza, it is probable that she will also connect the two lakes. To build an all British route, England needs just a little slice from the eastern edge of the Congo Free State. It may be 25 years before all or any of this is done, but the interesting and striking feature of it is that it is only 25 years since the late Henry M. Stanley made known to the world that vast area which now cannot rightly be designated as Darkest Africa."

INDUSTRIAL NOTES

OUR READERS are requested to send [illegible] notes regarding new contracts that they are ab[illegible] to award, or have secured, for our news columns. Cl[illegible] names and addresses are also wanted. [illegible] "Write-ups" will not be inserted under any circum[illegible], as notes must contain news of interest to our [illegible]. If our readers are in the market for any kind [illegible] machinery, tools, etc., we shall be glad to send [illegible] responsible firms making what they wa[illegible] names of

JOHN P. MILLIKEN, 560 Willoughby A[illegible] Brooklyn, N. Y., has been awarded the contract for wi[illegible] greens and bronze metal at Fort Totten, Willets Point, [illegible] Y.

R. E. KIMBALL & CO., 274 Wabash Ave., [illegible]ago, Ill., Western Agents for the Simplex Time Re[illegible] Co., are desirous of adding one or two first-class [illegible] to their present business, as they are in touch wi[illegible] cerns in Chicago and adjoining states.

THE PHOENIX IRON WORKS CO., Mead[illegible] Pa., has an exhibit of an engine at St. Louis, in the P[illegible] Plant of the Government Philippine Exhibit. This eng[illegible] is a tandem compound, side crank, direct connected [illegible] 190-KW. A. C. generator, cylinders 13¾ and 24 x 1[illegible] 150 revolutions per minute.

WICKES BROTHERS, of 115 Cedar St., New York city, report the sale of a large rolling mill equipm[illegible] consisting of roll trains, engine, boilers and other ma[illegible]nery to T. M. Kirkwood, of Toronto, Canada. This m[illegible]ol is to be forwarded to Winnipeg, Manitoba, where Mr. Kirkwood is building a modern rolling mill for the production of merchant bar iron, etc.

THE ELECTRIC CONTROLLER & SUPPLY CO., of Cleveland, O., desires to announce the open[illegible] of its Southern branch office at 509-510 Woodward Bldg., Birmingham, Ala. The company is now represented in the following cities: New York; Philadelphia, Pa.; Pittsburg, Pa.; Cleveland, O.; Birmingham, Ala.; Denver, Colo.; San Francisco, Cal., and London, England.

THE DAVENPORT LOCOMOTIVE WORKS, Davenport, Ia., reports the sale of two 6-wheel connected freight locomotives for use on the railway of the San Juan Sugar Corporation of Vera Cruz, Mexico. These engines are of the regular six-wheel switching type with steel tenders. The following special equipment will be used: Monitor injectors, Nathan lubricators, Washburn couplers, Davenport springs, Bettendorf metal tender trucks and Midvale tires.

THE BUFFALO & SUSQUEHANNA IRON CO., Buffalo, N. Y., has just installed its furnaces at Buffalo. Its annual output will be about 225,000 tons. The company controls its ore mines, coke supply, limestone, and through subsidiary corporations the transportation of all these raw materials. Its officers include Frank H. Goodyear and Charles W. Goodyear, and William Rogers, of the firm of Rogers, Brown & Co., who will handle the company's output.

THE WILE POWER GAS CO., 212 Cutler Bldg., Rochester, N. Y., has recently been formed and will manufacture Automatic Gas Producers with patent regulator of the pressure type of which over 1,000 HP. are now in successful operation in England. These producers will work with either coke, charcoal, anthracite and bituminous coal or wood. The company will also build suction gas producers, designed by experienced gas engineers and embodying the features of European practice. The manager of the company is Julius I. Wile, who has recently returned from England, where he was in charge of the engineering-sales department of Fraser & Chalmers Co., Ltd., London.

SCOTT & OLIVER MFG. CO., of Knoxville, Tenn., announces that its name has been changed to the Wm. J. Oliver Mfg. Co., and the charter amended so as to increase the capital stock of the concern from $50,000 to $100,000. Mr. Alex McMillan and Mr. Alex A. Scott, formerly of this company, have sold their interests to Mr. Wm. J. Oliver, and he has assumed active control and operation of the plant, improving and enlarging it, doubling its capacity and putting things in moving order. This company will manufacture a line of clay, mining, dump and contractors' cars, hoisting engines, light locomotives, brick machines, the Scotts patent brick car and drying equipment, together with wheelbarrows, etc. It has improved the Scotts system for handling and drying brick, having secured exclusive control of these patents, and will put this on the market in connection with its other lines. The officers of the new company are W. J. Oliver, Pres.; W. W. Wallace, Gen. Supt.; L. C. Gunter, Secy. and Treas.

93,000 YDS. ASPHALT PAVING.

Atlantic City, N. J.

Sealed bids or proposals endorsed "Proposals for Paving Atlantic Avenue," with the name of the person or Corporation making the bid, will be received by the City Clerk at Council Chambers in the City Hall, between the hours of 8.00 and 8.30 o'clock p. m., Monday, October 24, 1904, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested is the furnishing and laying of

93,000 sq. yds. of Asphalt Pavement, including concrete foundation.
12,000 sq. yds. of Vitrified Fire Clay Block Pavement, including concrete foundation.
90 cu. yds. of Extra Concrete.
47,000 cu. yds. of Excavation.
2,900 lin. ft. Bluestone Heading Stones.

The bidder must deposit with the City Engineer, at his office, before 5 o'clock p. m., Monday, October 24, 1904, two (2) sample vitrified paving blocks of the kind he proposes to furnish and of the size and quality described in the specifications, labelled with the name of the bidder, and the place of manufacture. Each bidder may submit samples of more than one kind of block proposed to be furnished at the one price bid; but with the understanding that the Street Committee shall make the selection.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of John A. Jeffries, City Treasurer, for the sum of Ten Thousand ($10,000) Dollars.

Surety Company Bond will be required in the sum of one-half of the contract price for the entire work based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of proposal and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622 Bartlett Building.

EDWARD S. JOHNSON,
CHARLES W. MATHIS,
DANIEL KNAUER,
JOHN DONNELLY,
EDWIN A. PARKER,
Street Committee.

J. W. HACKNEY, City Engineer. 15-1t

FALL TRAVEL SOUTH.

The tide of travel is now southward bound. The Southern Railway, as usual, has its schedules so arranged as to give those going south, southwest, Mexico and California a most delightful service. Through Pullmans are operated daily from New York, touching all of the prominent cities south and southwest. The Southern Railway operates its own dining-car service on all through trains, which is of the highest standard of excellence. For full information call on or address New York offices, 271 and 1185 Broadway.

Alexander S. Thweatt, Eastern Passenger Agent.

U. S. ENGINEER OFFICE, 2728 Pennsylvania Ave., N. W., Washington, D. C., Oct. 13, 1904.—Sealed proposals for dredging in Potomac River, below Washington, D. C., and Nomini Creek, Va., will be received here until 12 o'clock m., Nov. 2, 1904, and then publicly opened. Information on application. W. P. WOOTEN, Capt., Engrs. 15-2t

93,000 YDS. BITULITHIC PAVING.

Atlantic City, N. J.

Sealed bids or proposals endorsed "Proposals for Paving Atlantic Avenue," with the name of the person or Corporation making the bid, will be received by the City Clerk at Council Chambers in the City Hall, between the hours of 8.00 and 8.30 o'clock p. m., Monday, October 24, 1904, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested is the furnishing and laying of

93,000 sq. yds. of Bitulithic Pavement, including concrete foundation.
12,000 sq. yds. of Vitrified Fire Clay Block Pavement, including concrete foundation.
90 cu. yds. of Extra Concrete.
47,000 cu. yds. of Excavation.
2,900 lin. ft. Bluestone Heading Stones.

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JOHN DONNELLY,
EDWIN A. PARKER,
Street Committee.

J. W. HACKNEY, City Engineer. 15-1t

SITUATIONS OPEN

(Received on Wednesday, too late for classification.)

WANTED.—A mechanical engineer and draftsman who is capable of designing machinery for elevating and conveying ores, coal, stone, grain, etc.; must also be familiar with power transmission machinery, such as Manila rope drives, friction clutches, pulleys, shafting, etc. We want a man who is now employed with some reputable concern, but who may desire to make a change. Write fully, giving age, experience and name of concern now employed with; also salary expected. All applications will be considered confidential. STEPHENS-ADAMSON MFG. CO., Aurora, Ill. 15-1t

DRAFTSMEN.—First-class men on ornamental work for buildings New York City; state age, references and salary expected. Address "B. A. 15," Engineering News, New York. 15-1t

For other Proposal Advertisements see pages 35 36, 37. 38 of Advertisements and Construction News pages 188.

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